

FIG. 1

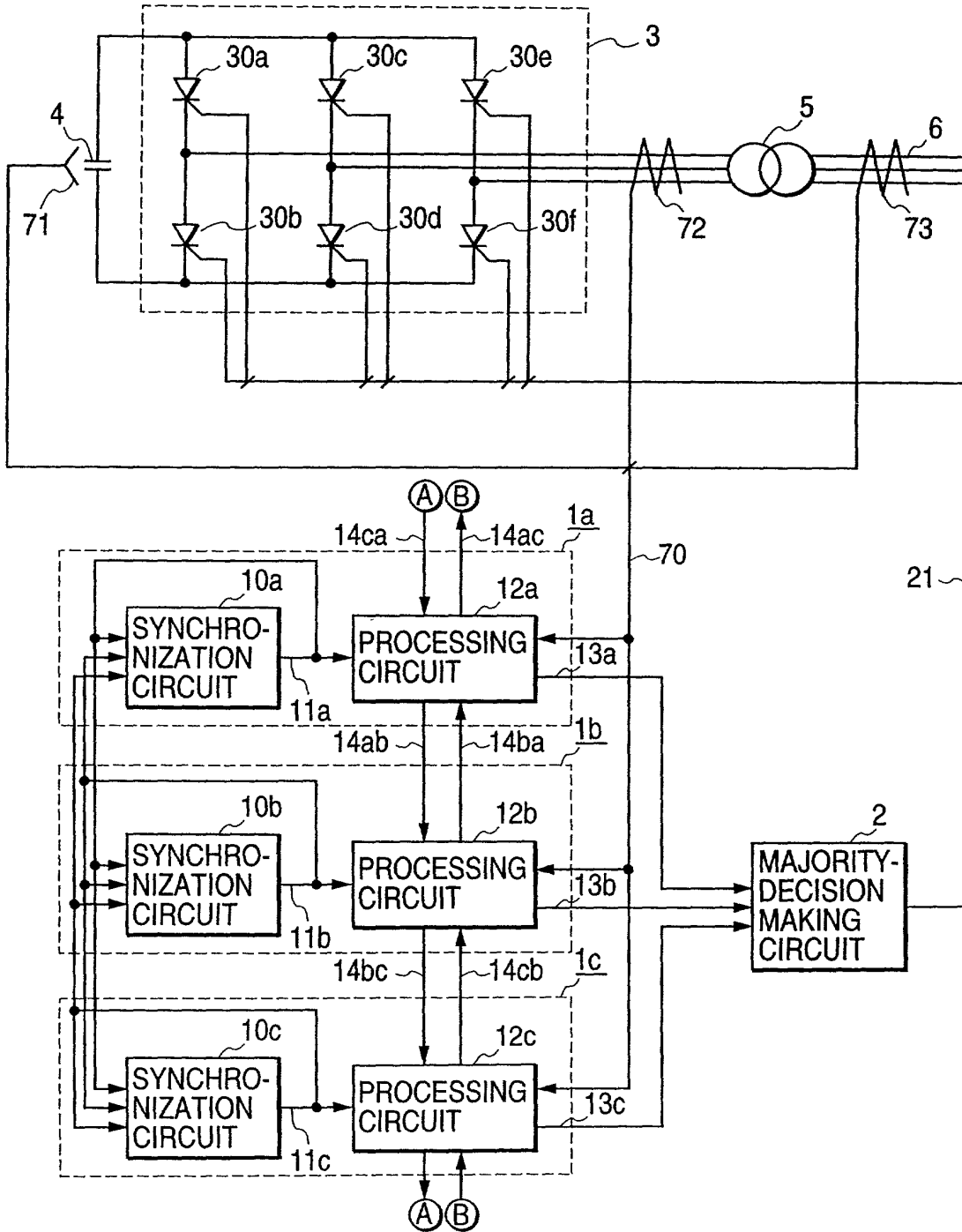


FIG. 2

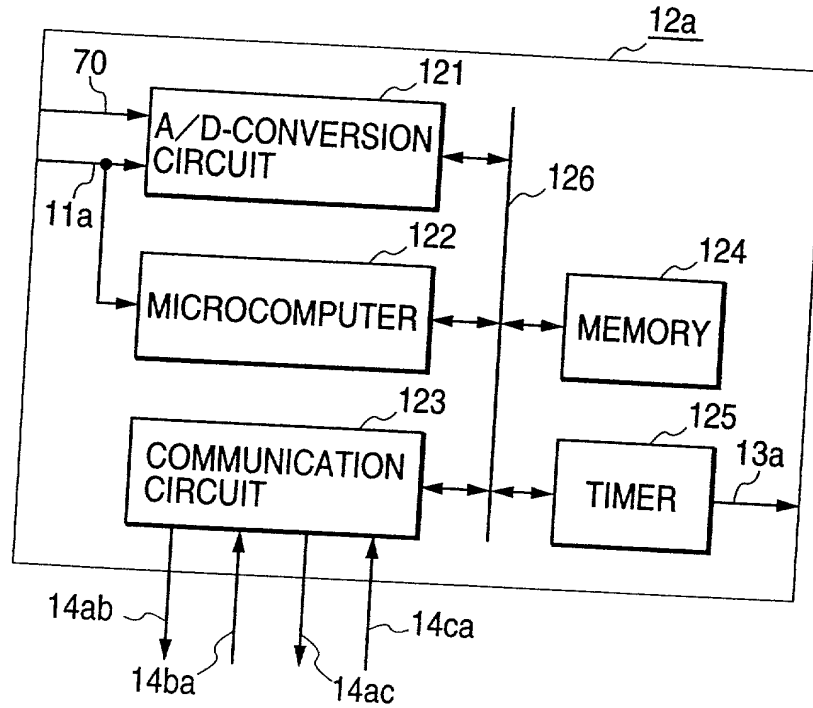
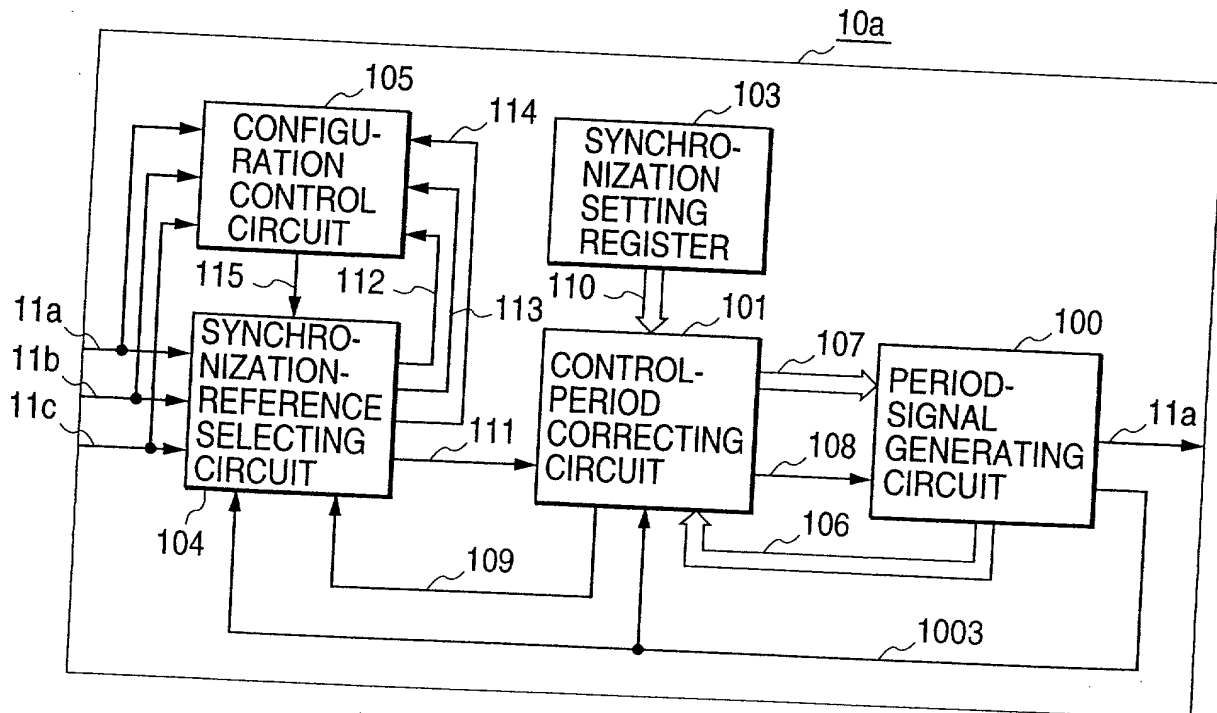


FIG. 4



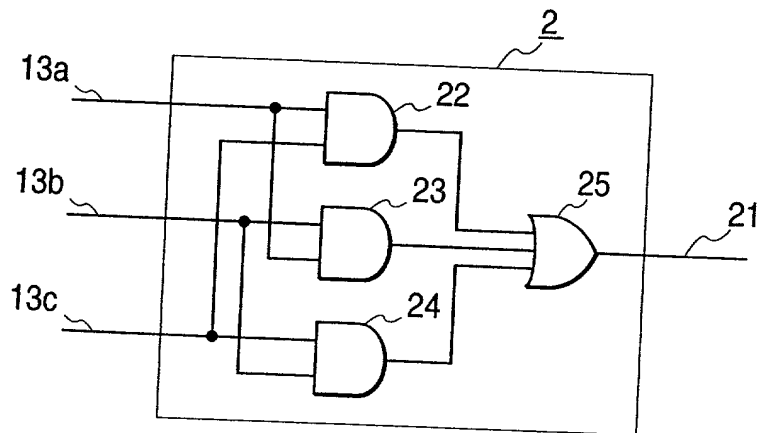
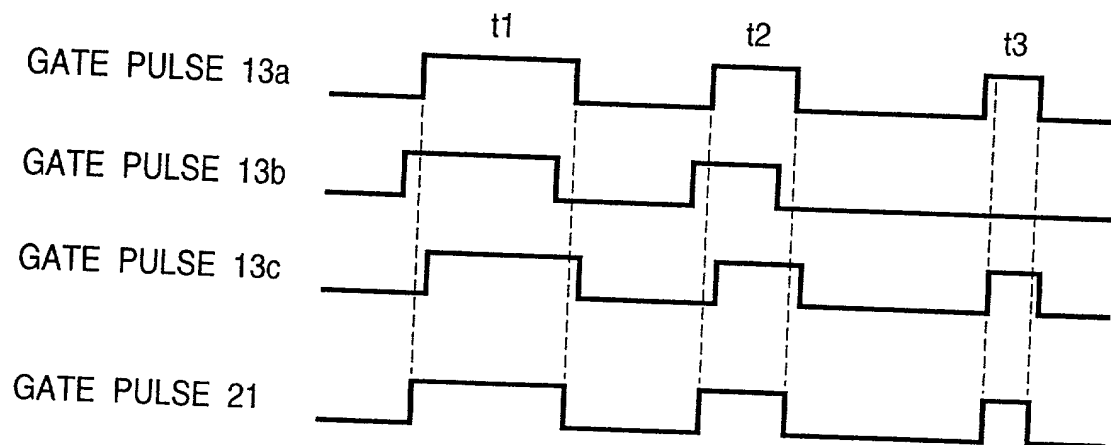
*FIG. 3(a)**FIG. 3(b)*

FIG. 5

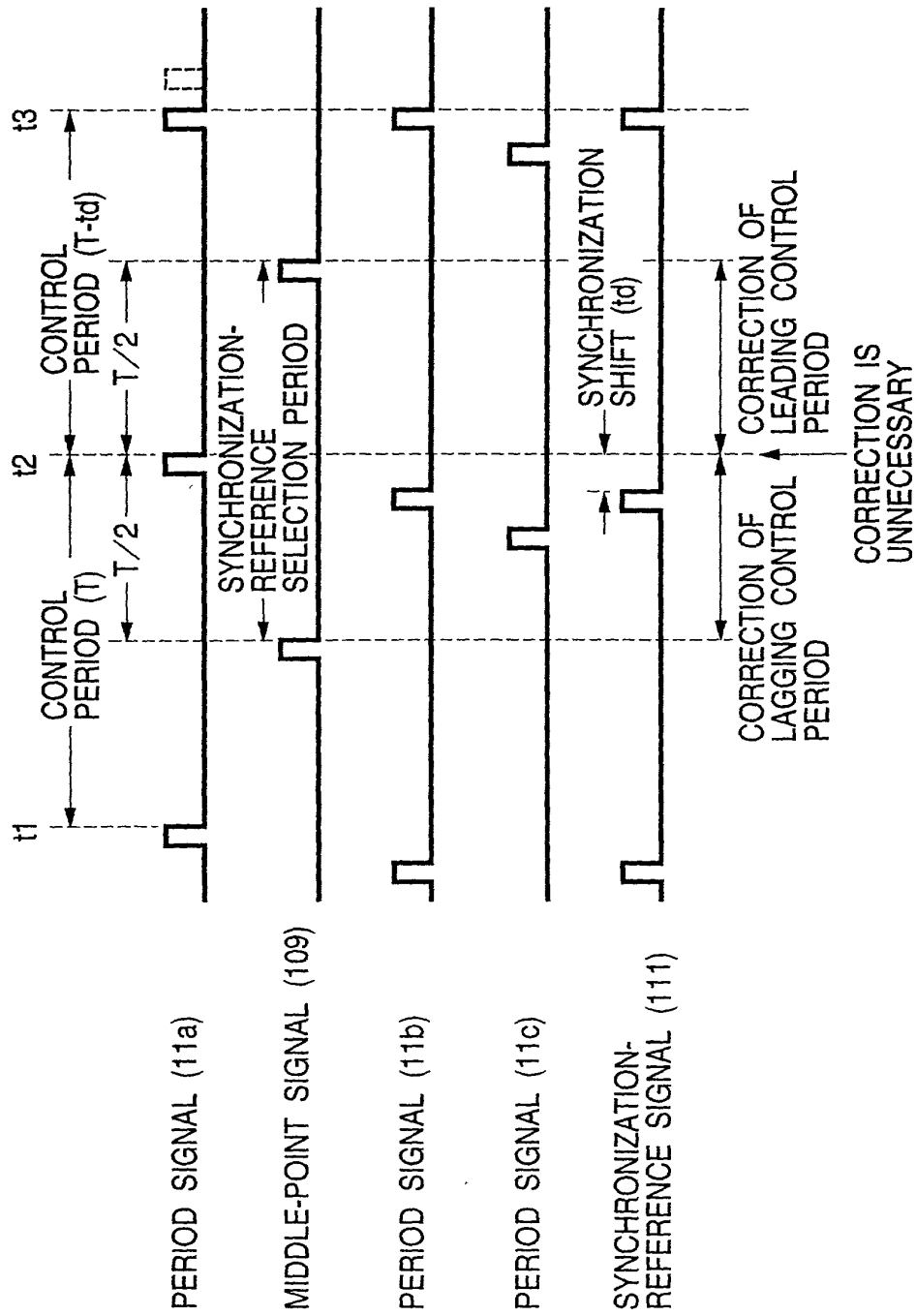


FIG. 6

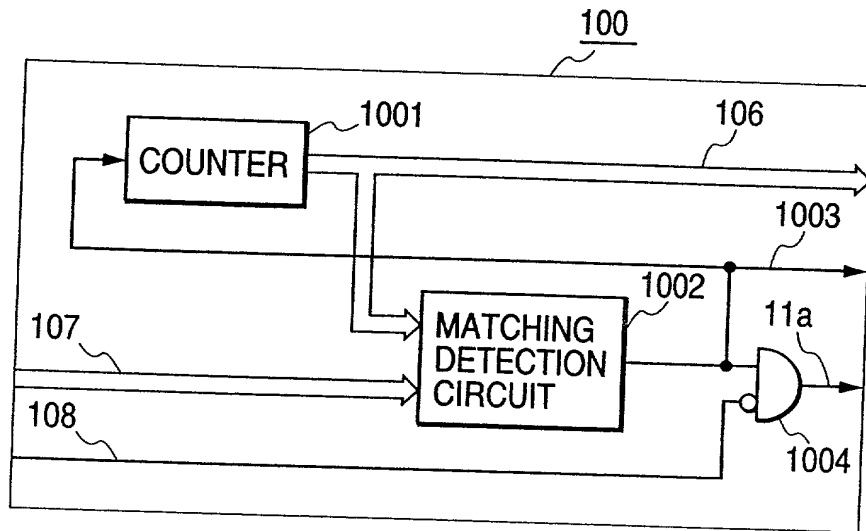
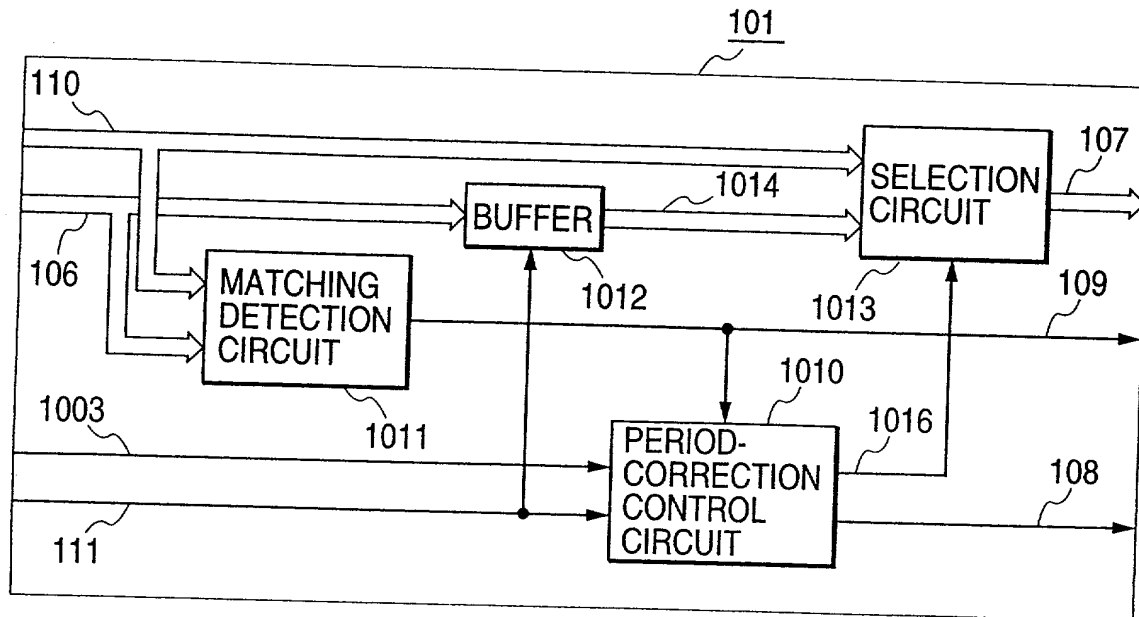
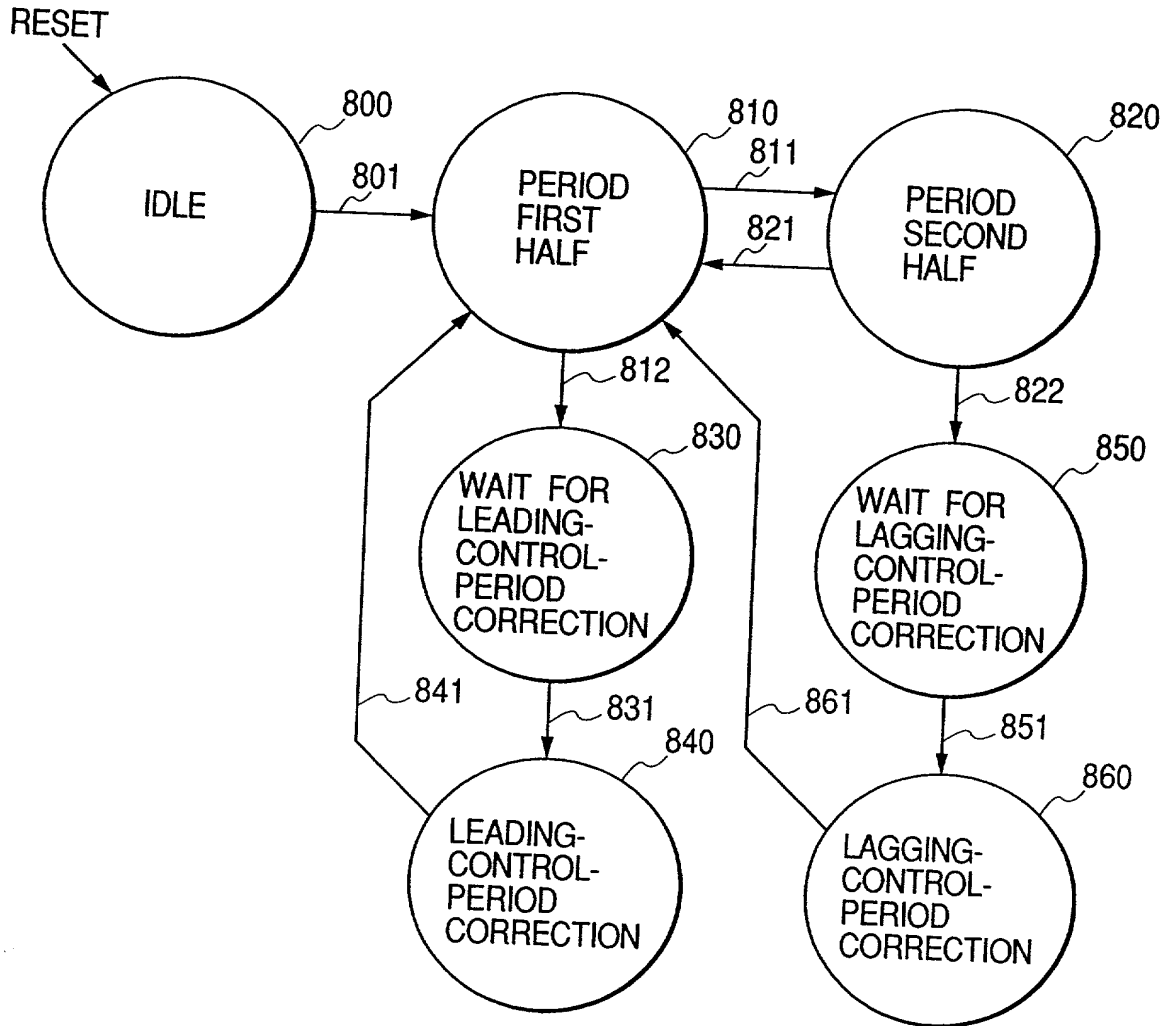
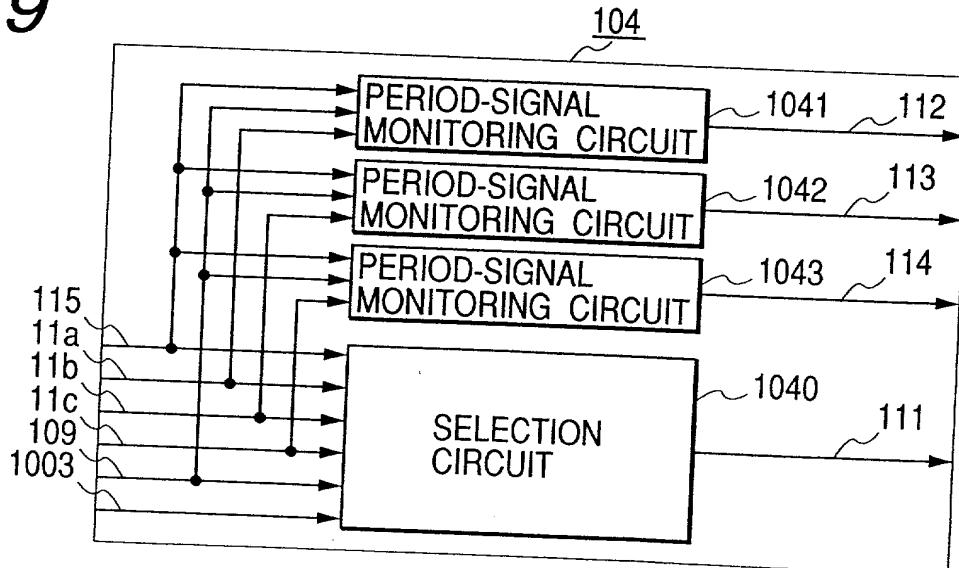


FIG. 7



**FIG. 8****FIG. 9**

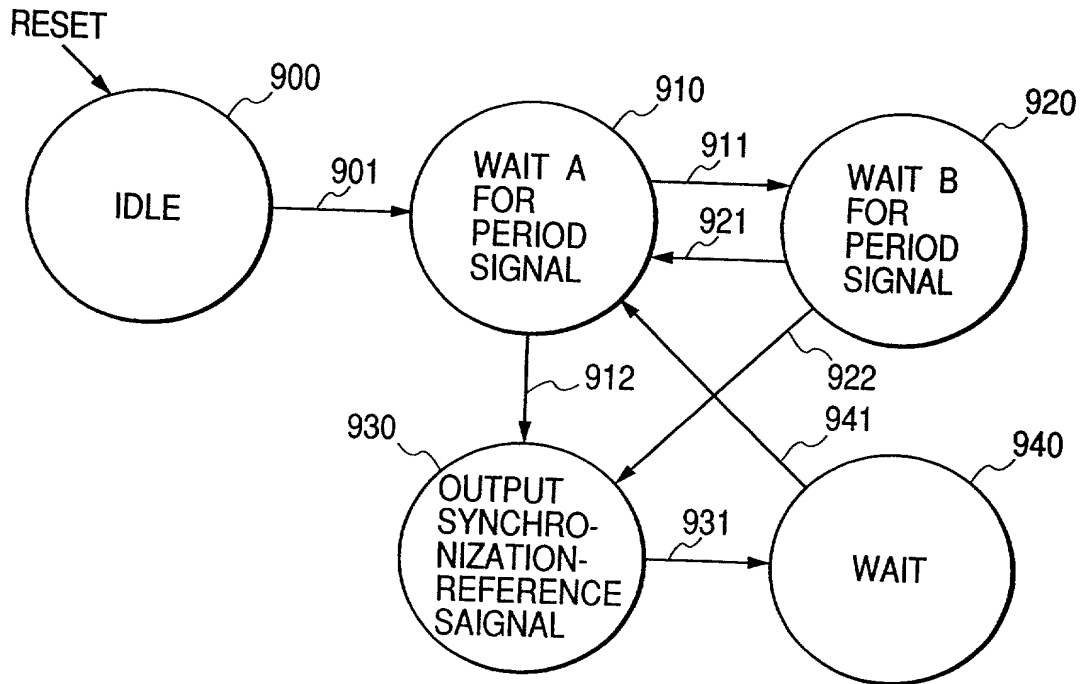
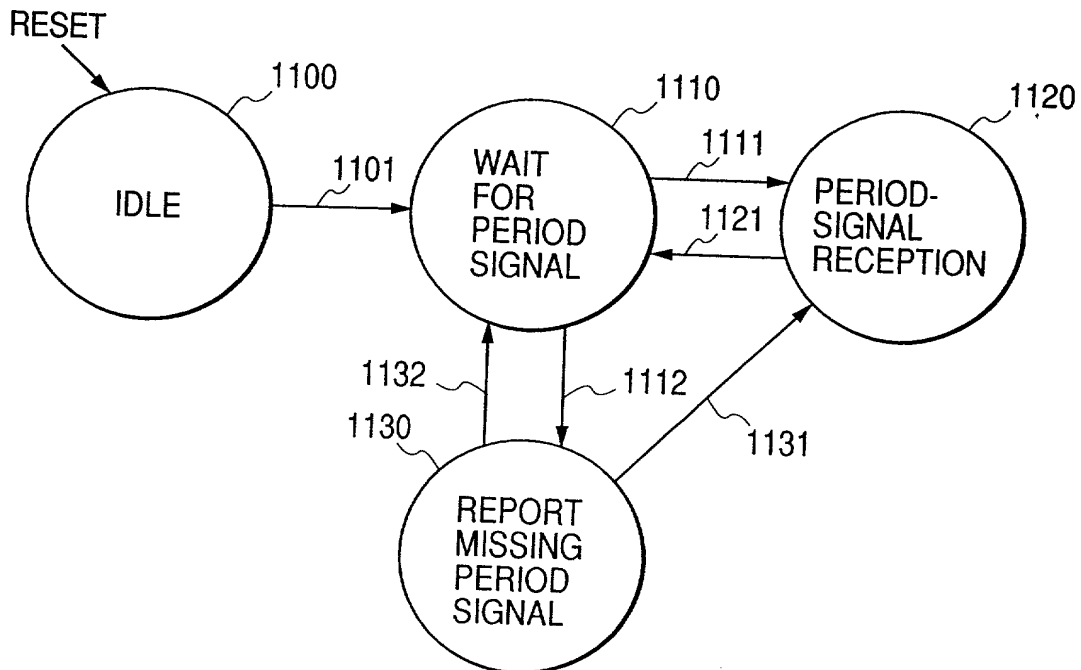
**FIG. 10****FIG. 11**

FIG. 12

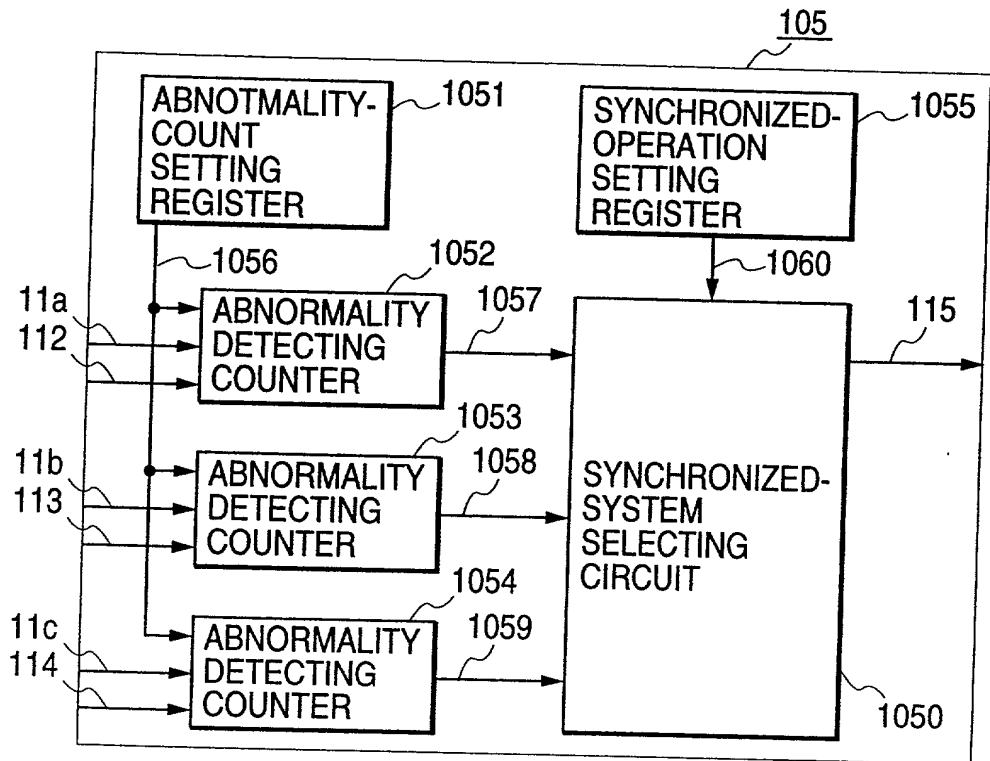


FIG. 13

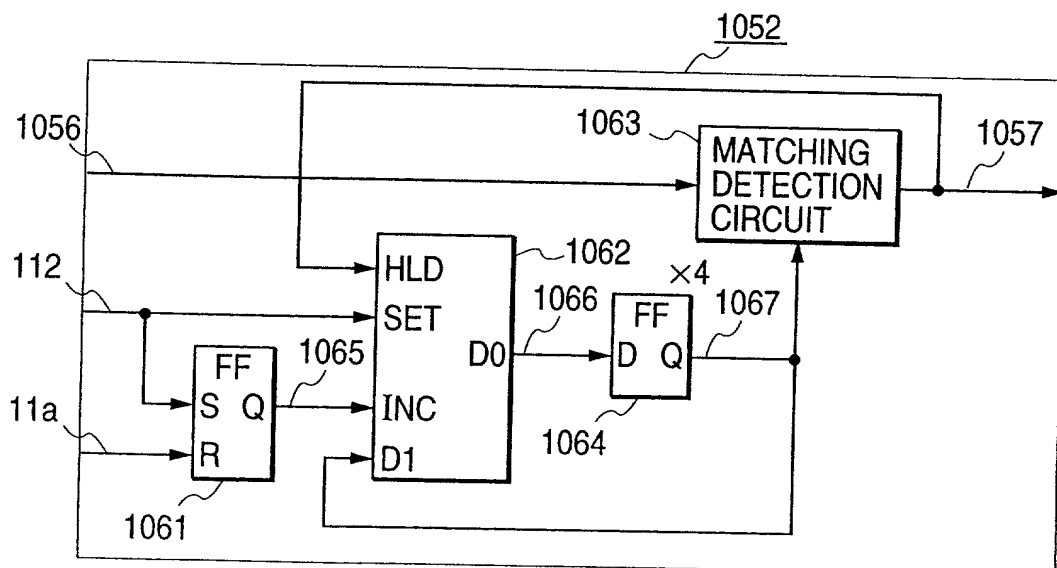




FIG. 14

SET	INC	HLD	DO
0	0	0	DI
0	0	1	DI
0	1	0	DI
0	1	1	DI
1	0	0	1
1	0	1	DI
1	1	0	DI+1
1	1	1	DI

FIG. 15

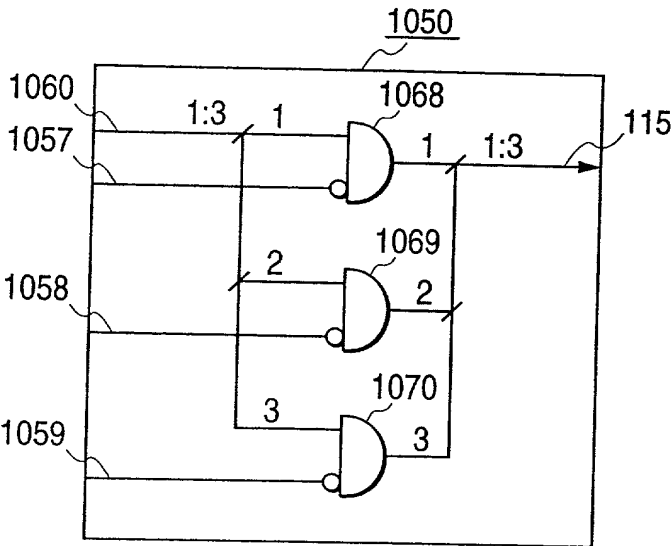


FIG. 16

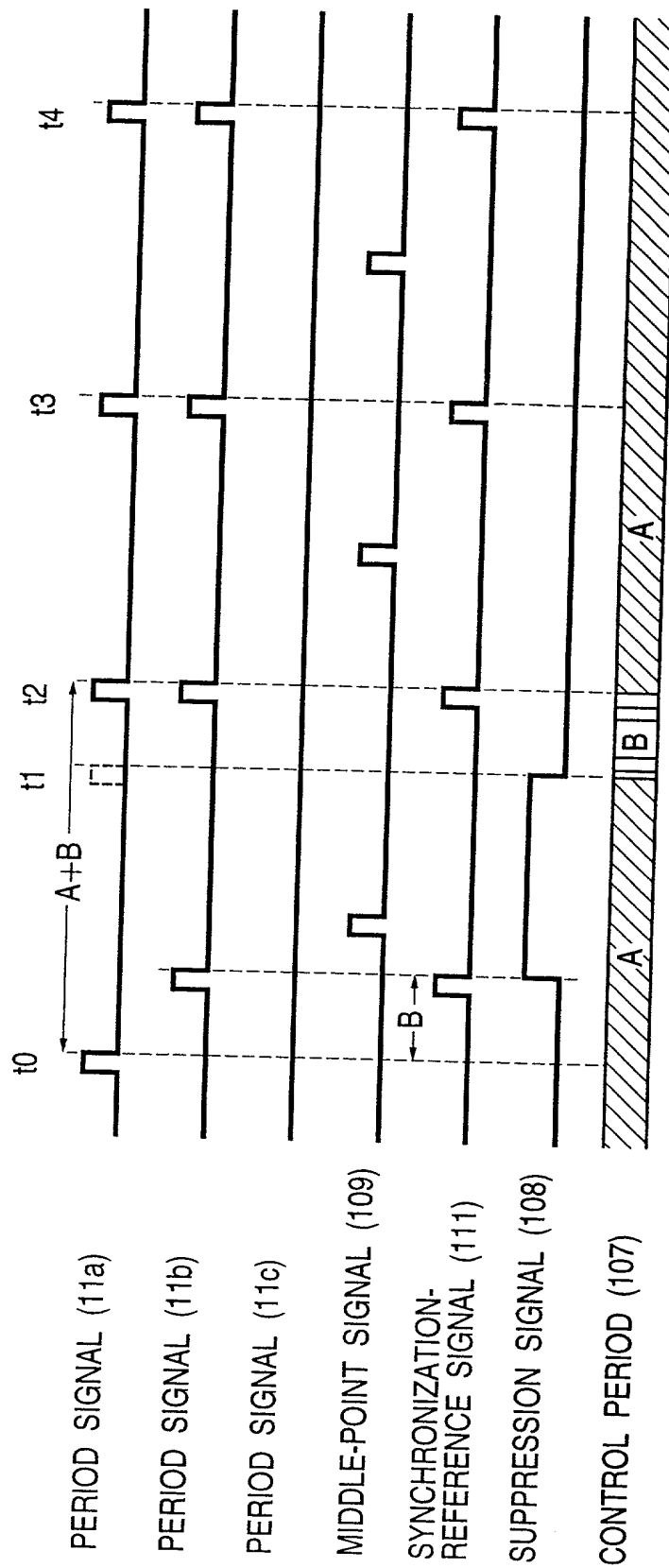


FIG. 17

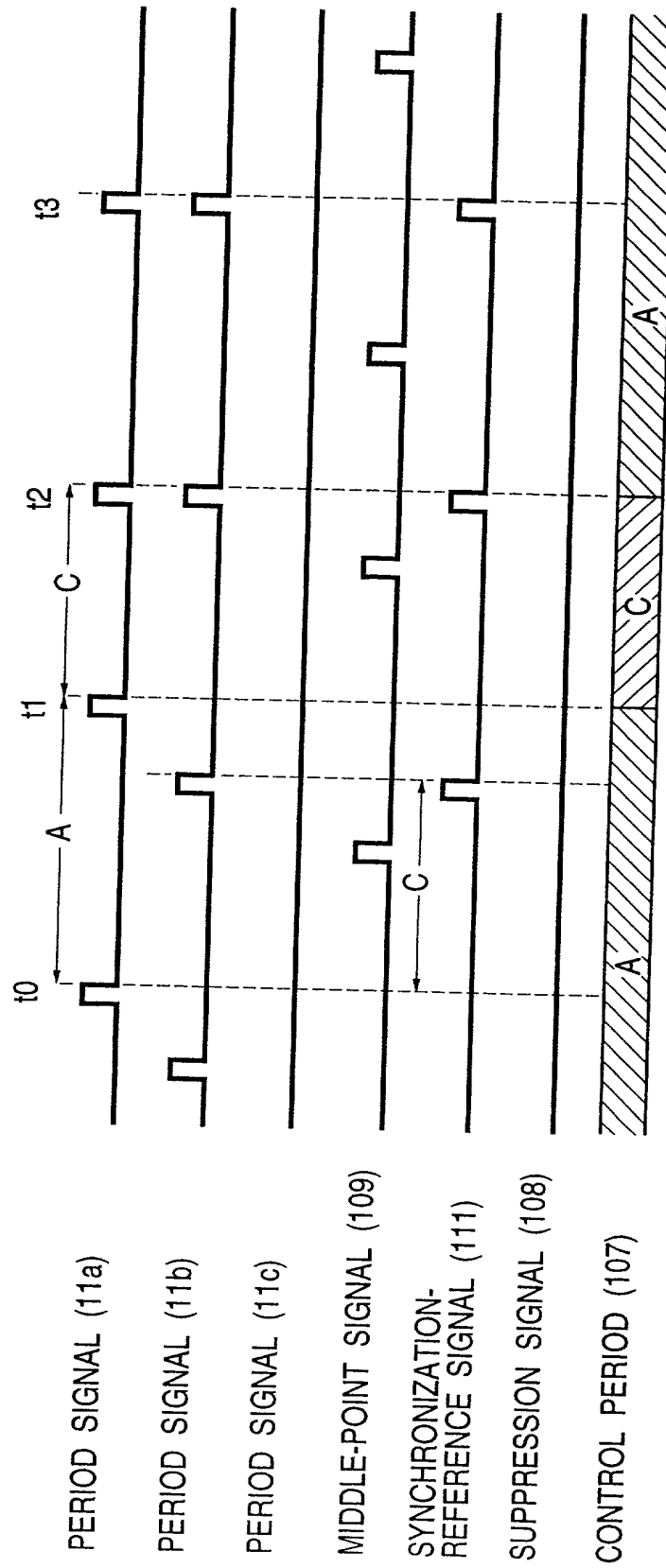


FIG. 18

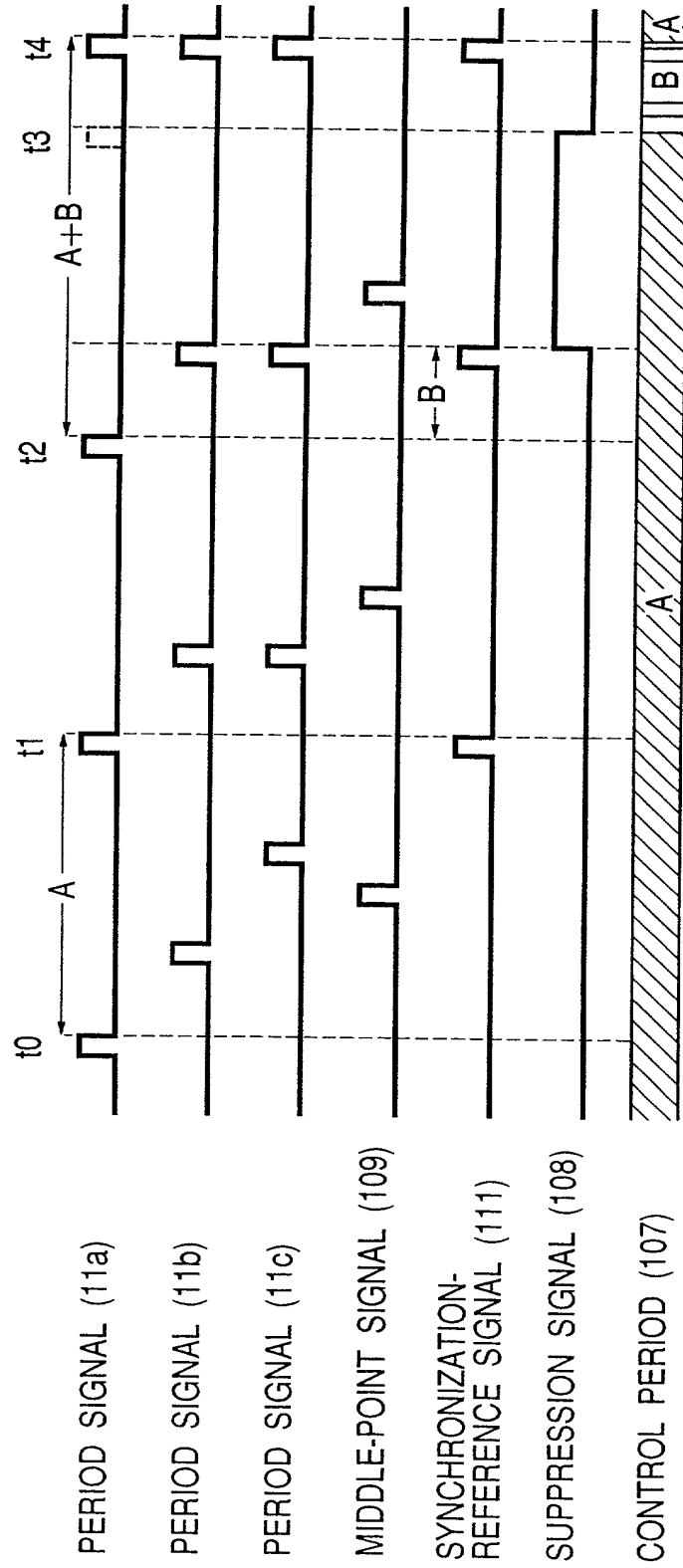




FIG. 20

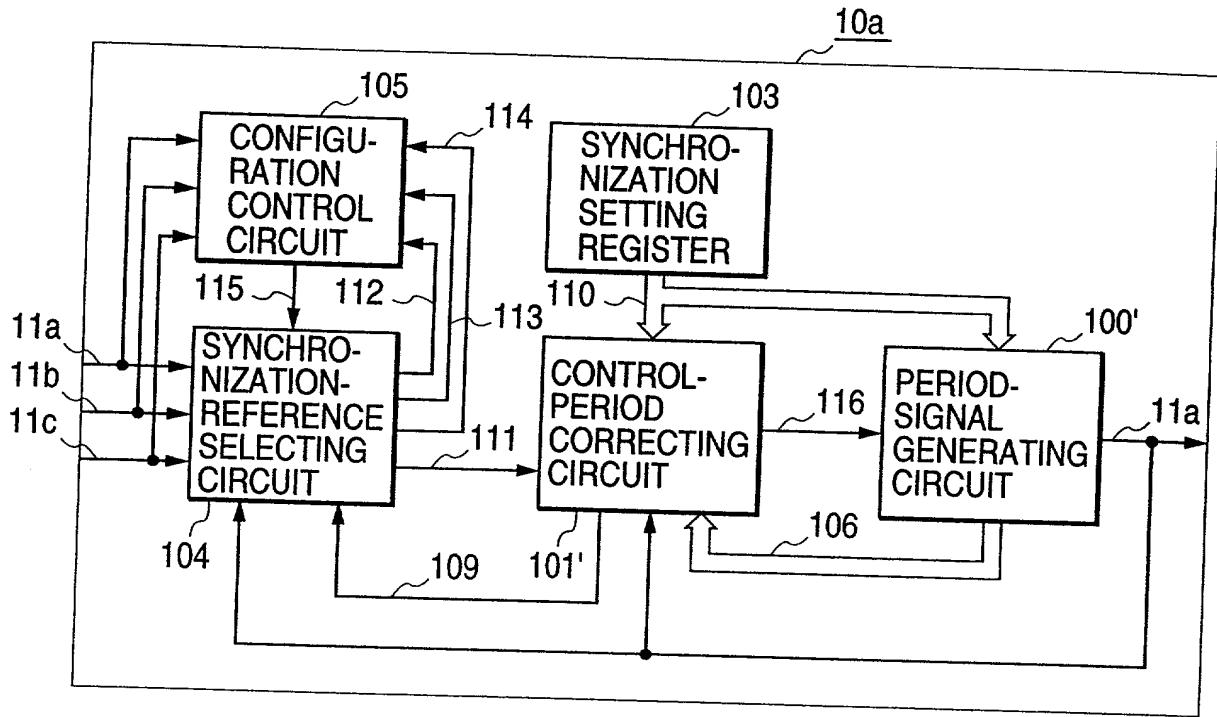
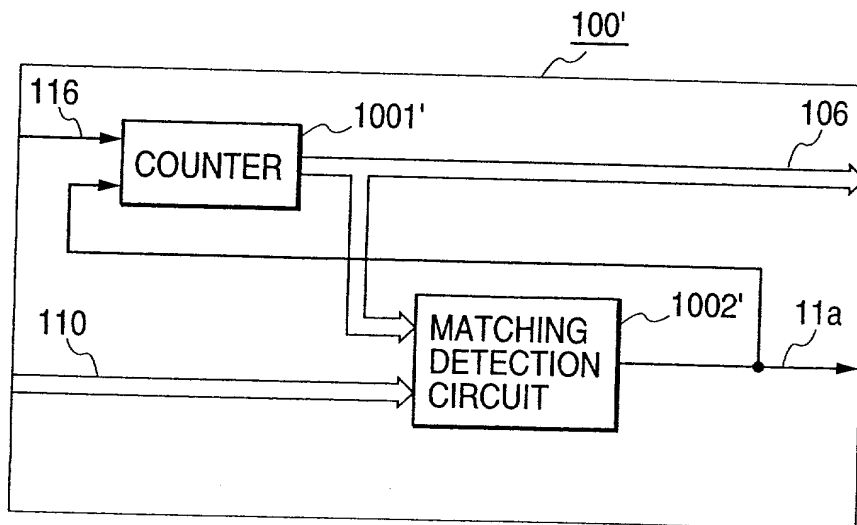


FIG. 21



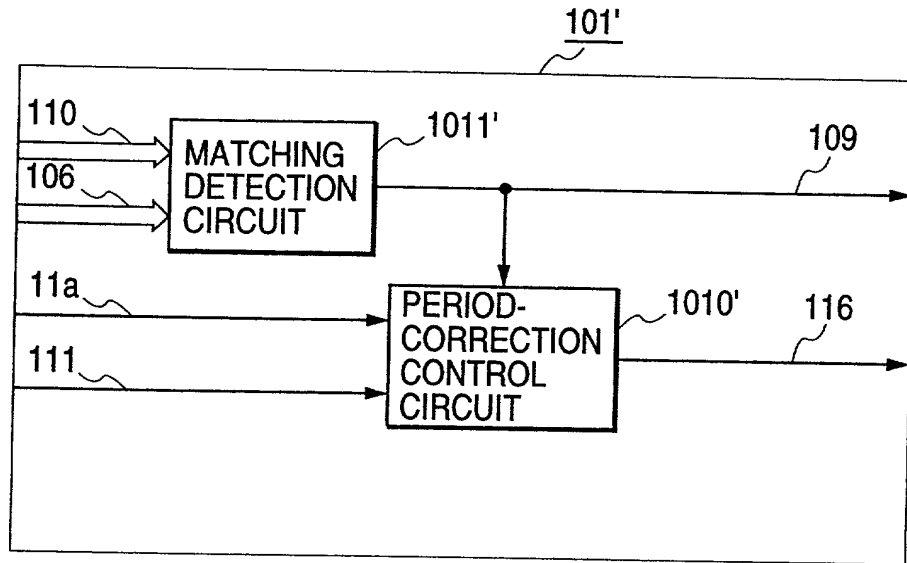
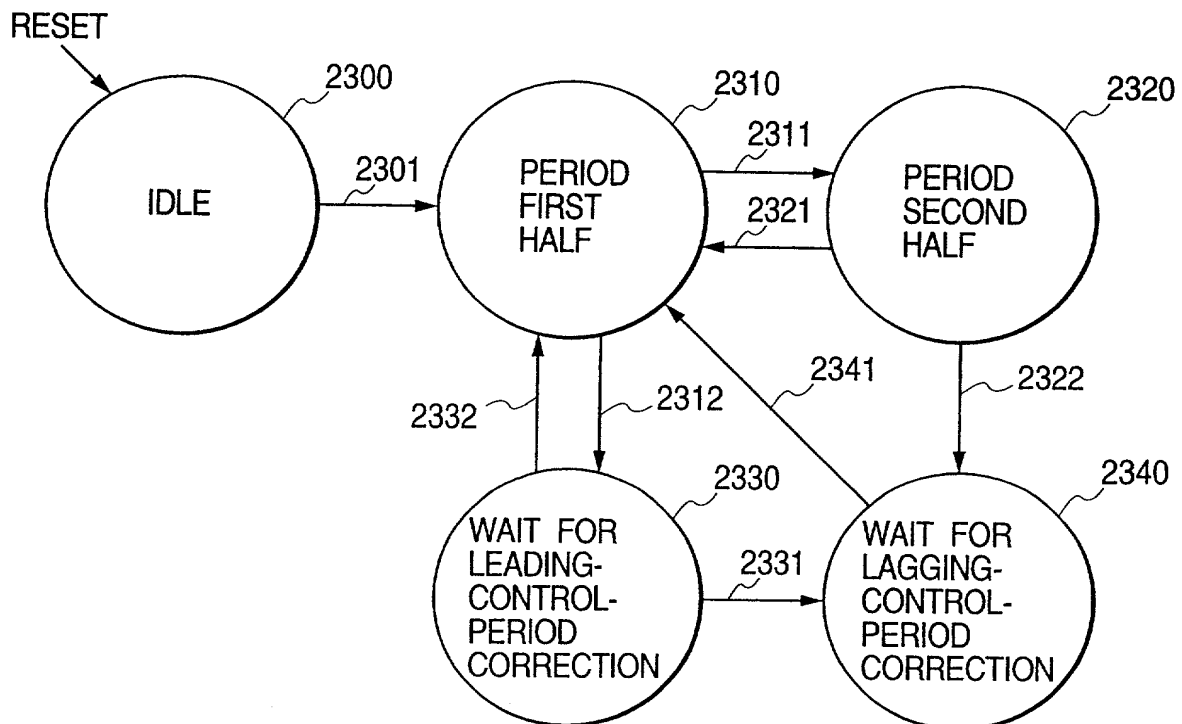
**FIG. 22****FIG. 23**

FIG. 24

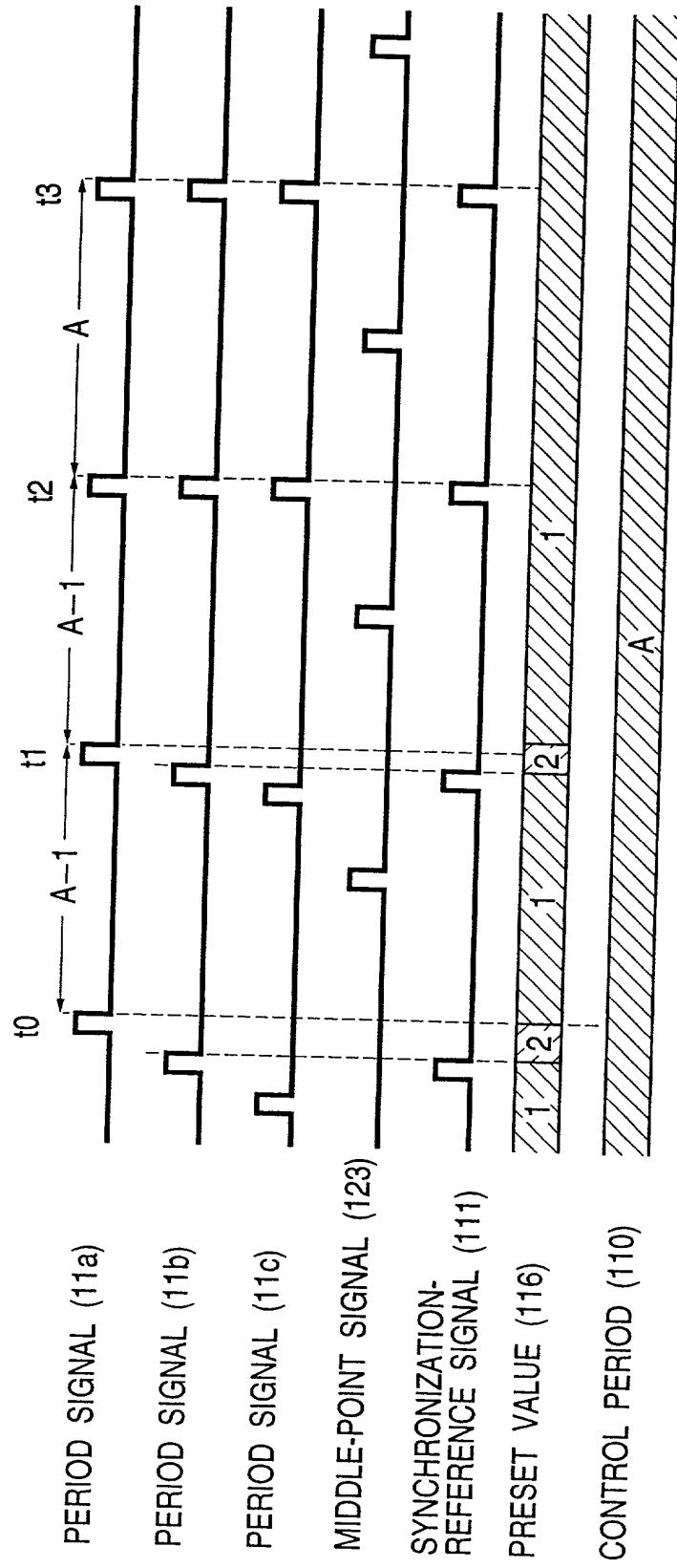




FIG. 25

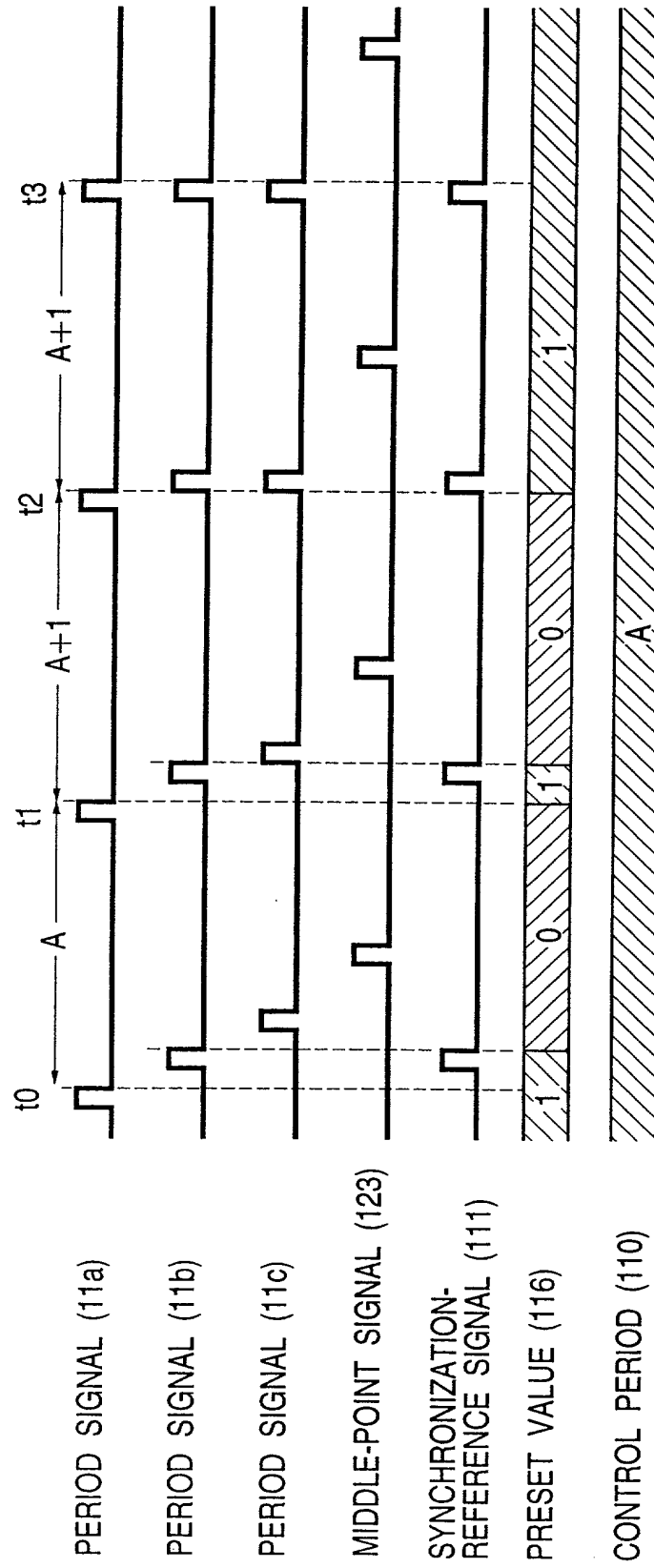


FIG. 26

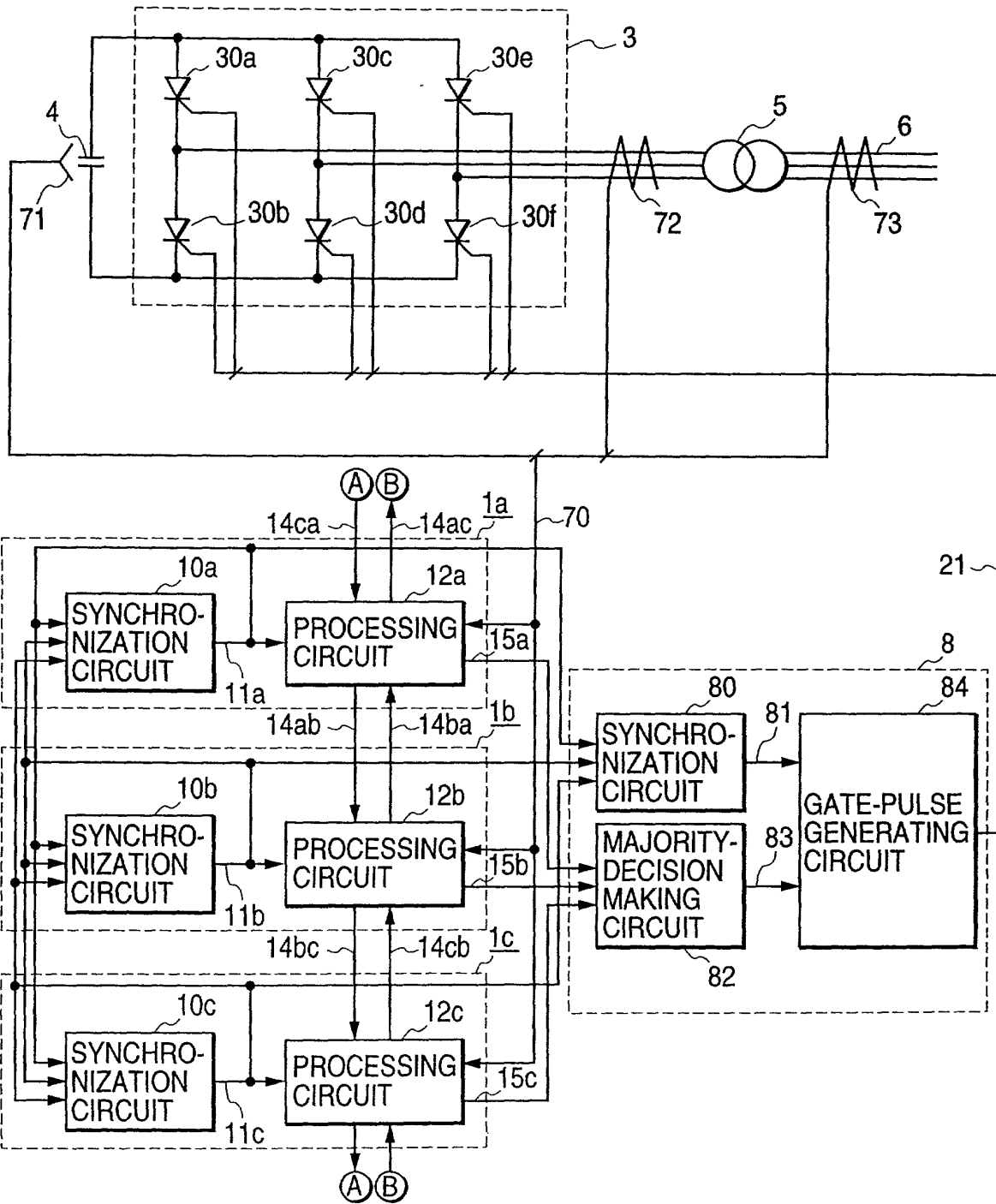


FIG. 27

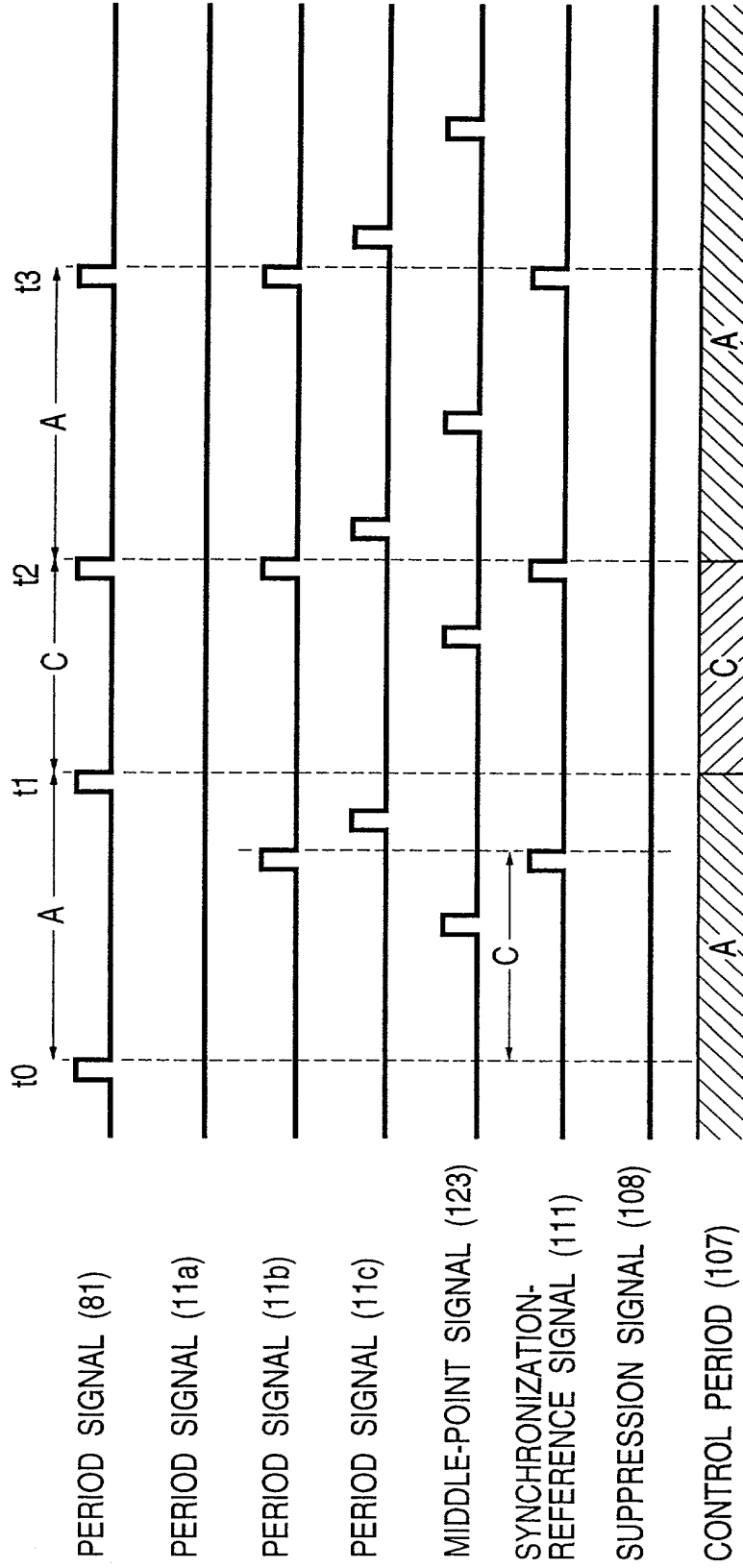


FIG. 28

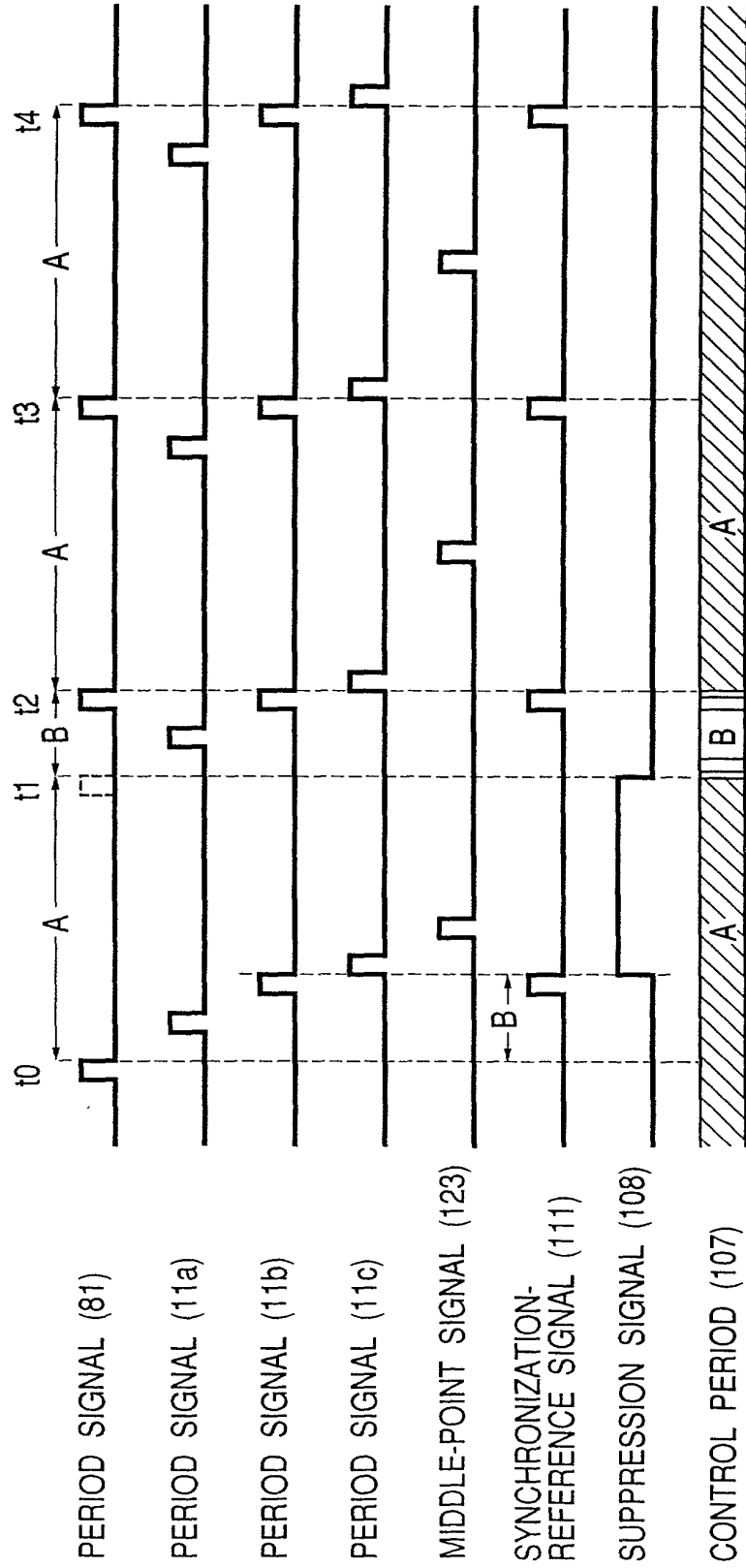


FIG. 29

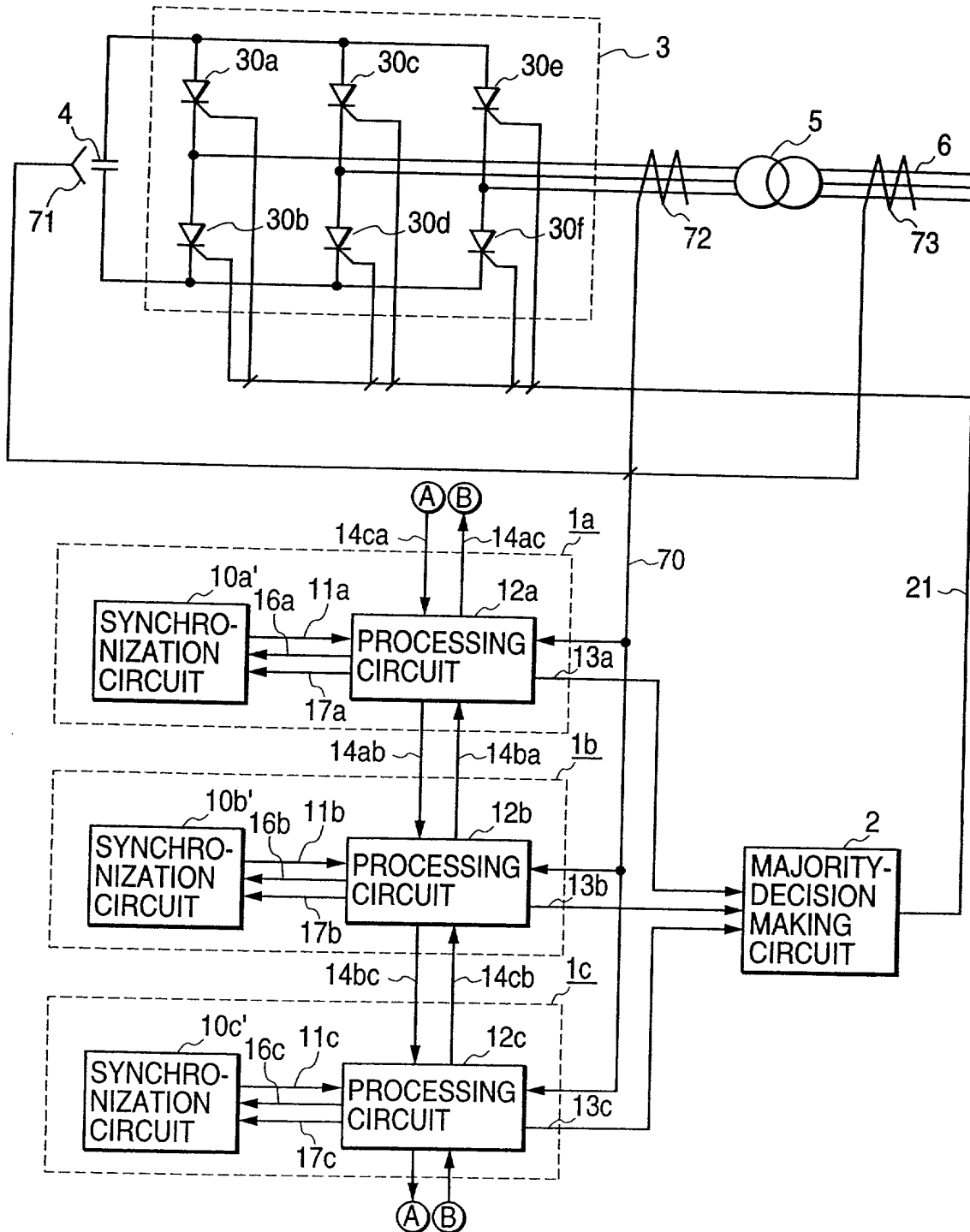


FIG. 30

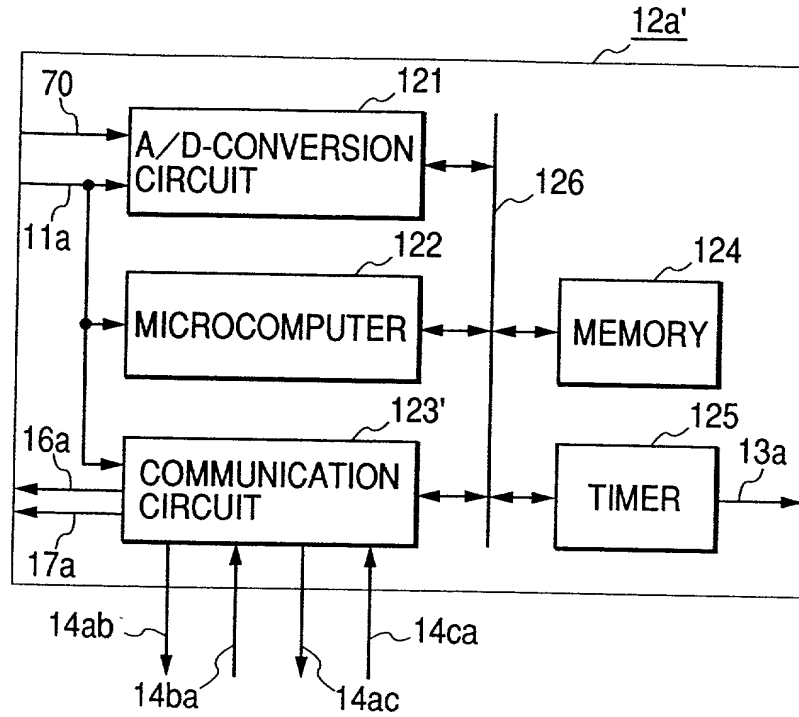


FIG. 31

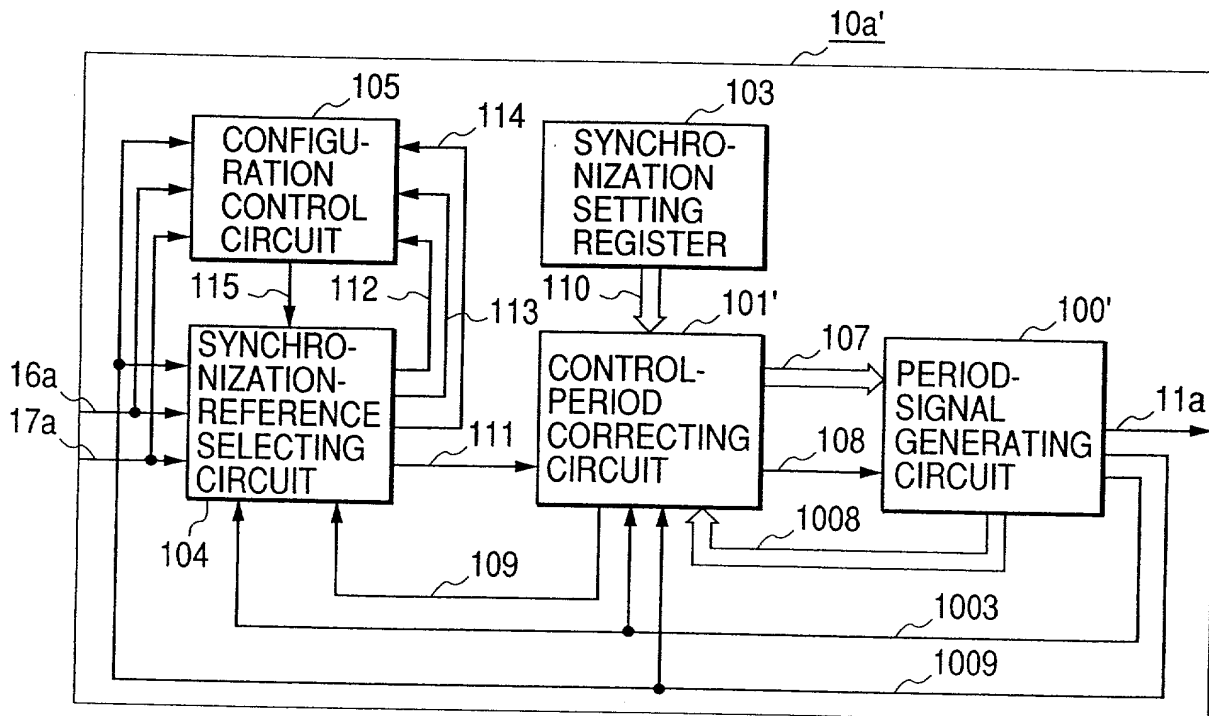


FIG. 32

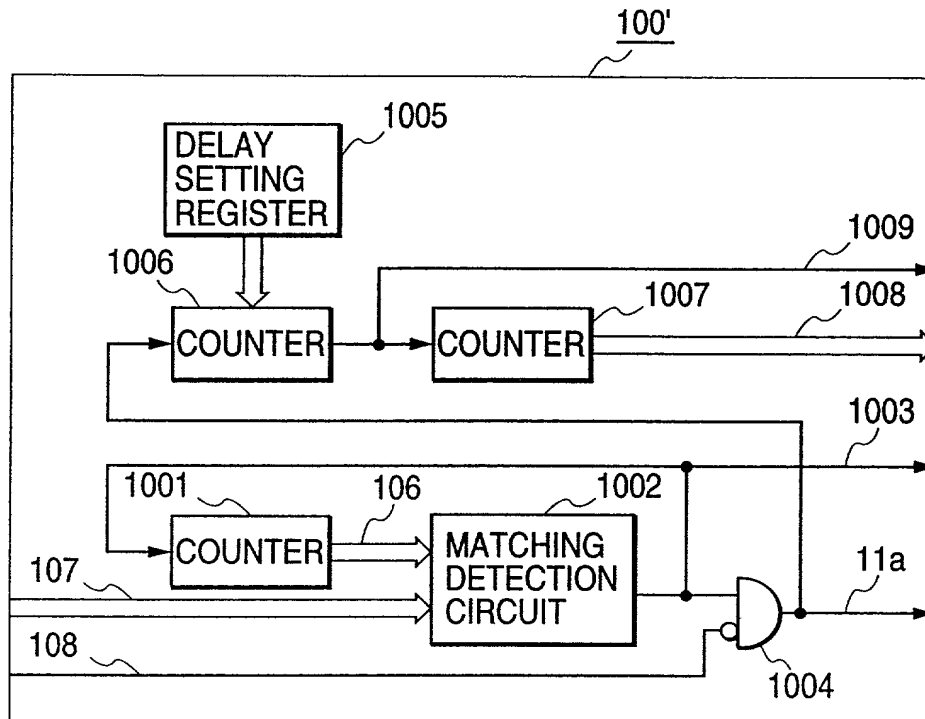
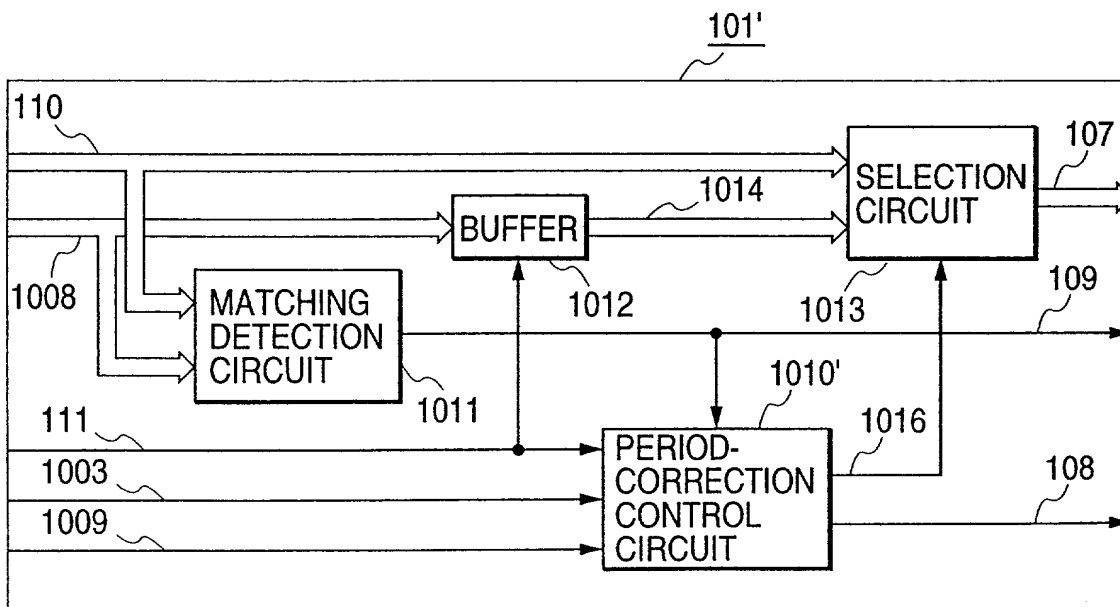


FIG. 33



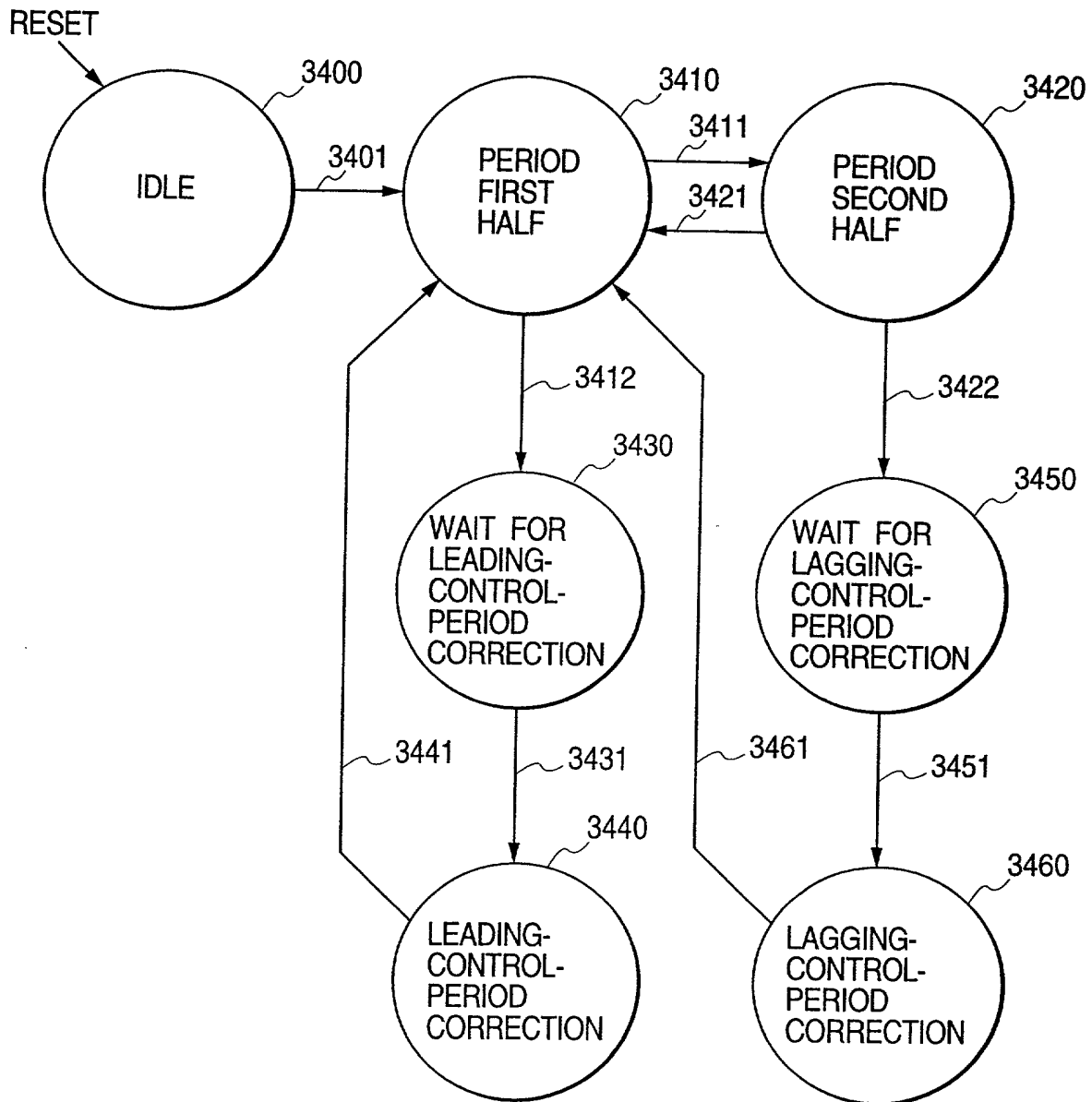
**FIG. 34**



FIG. 35

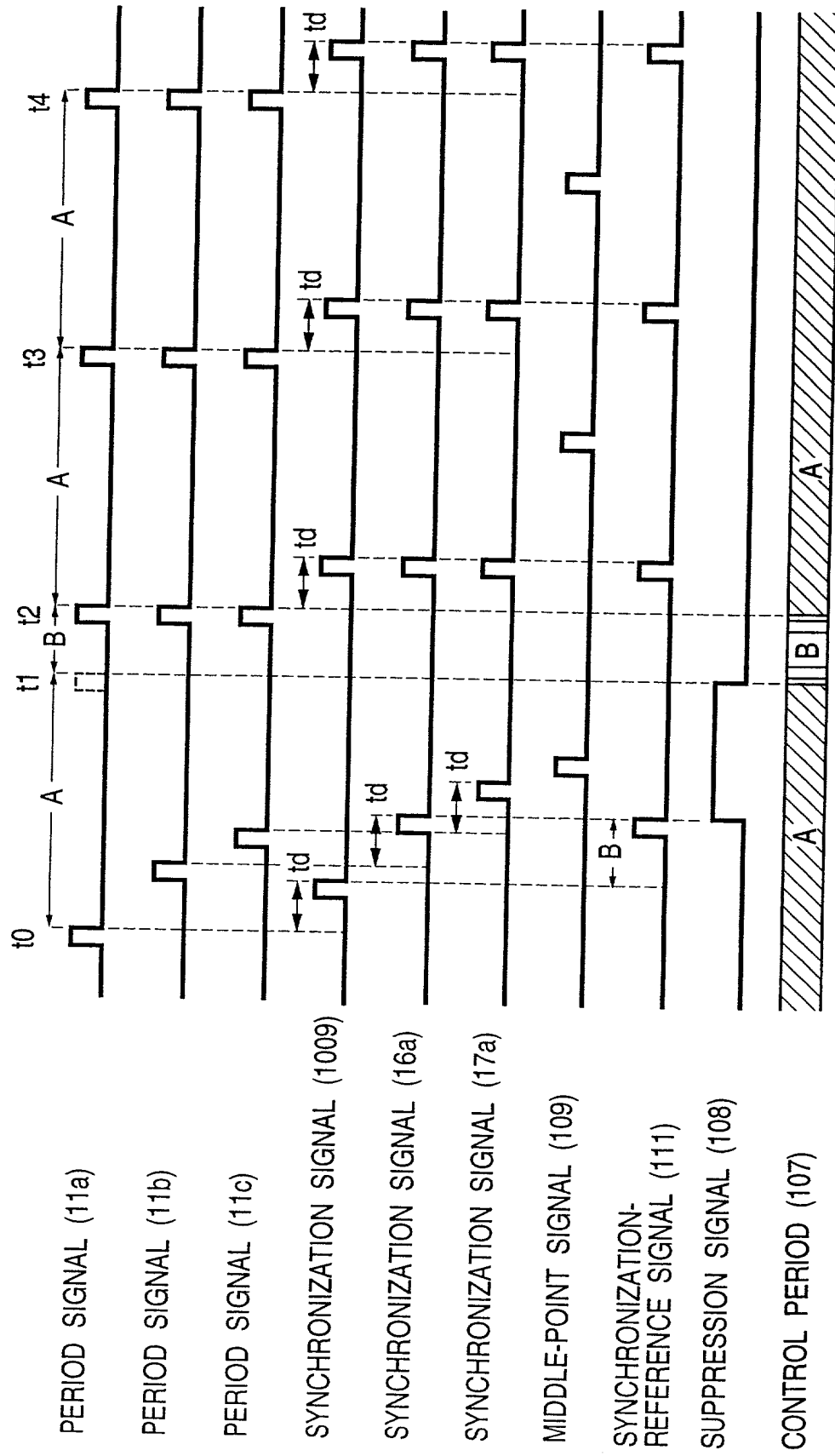


FIG. 36

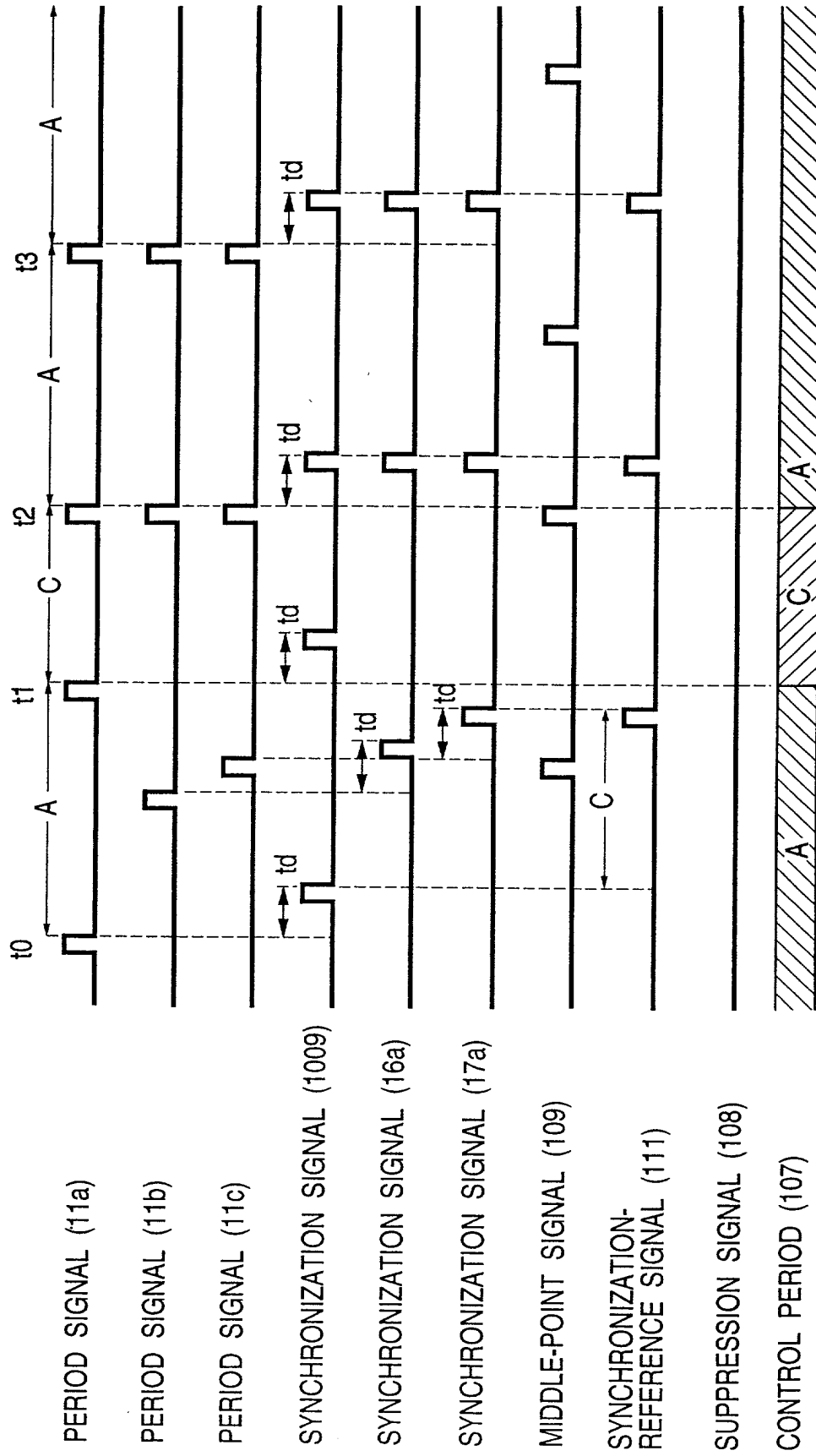


FIG. 37

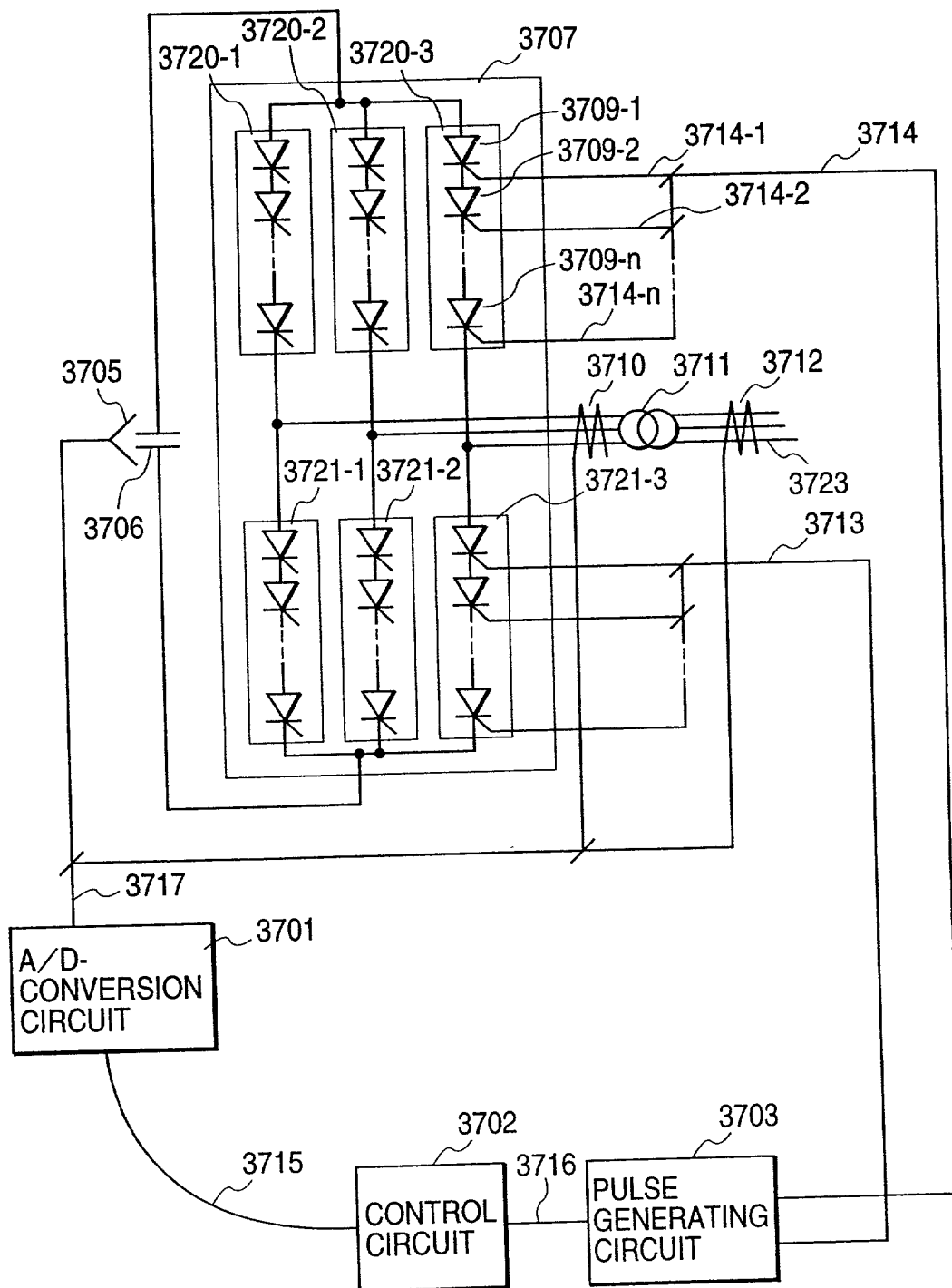


FIG. 38

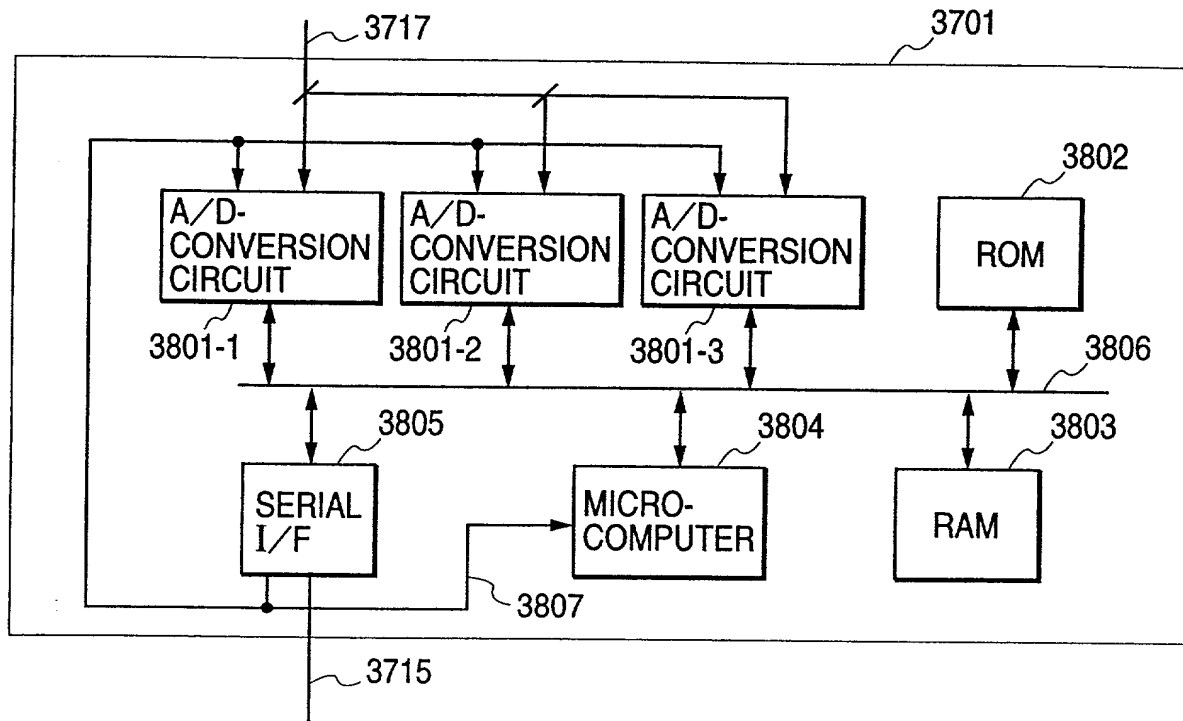


FIG. 39

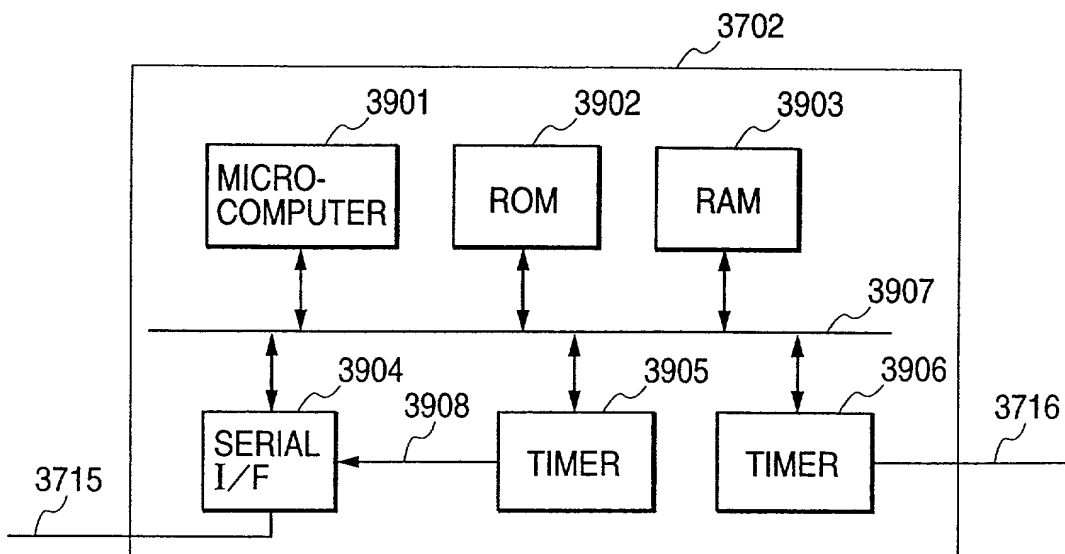


FIG. 40(a)

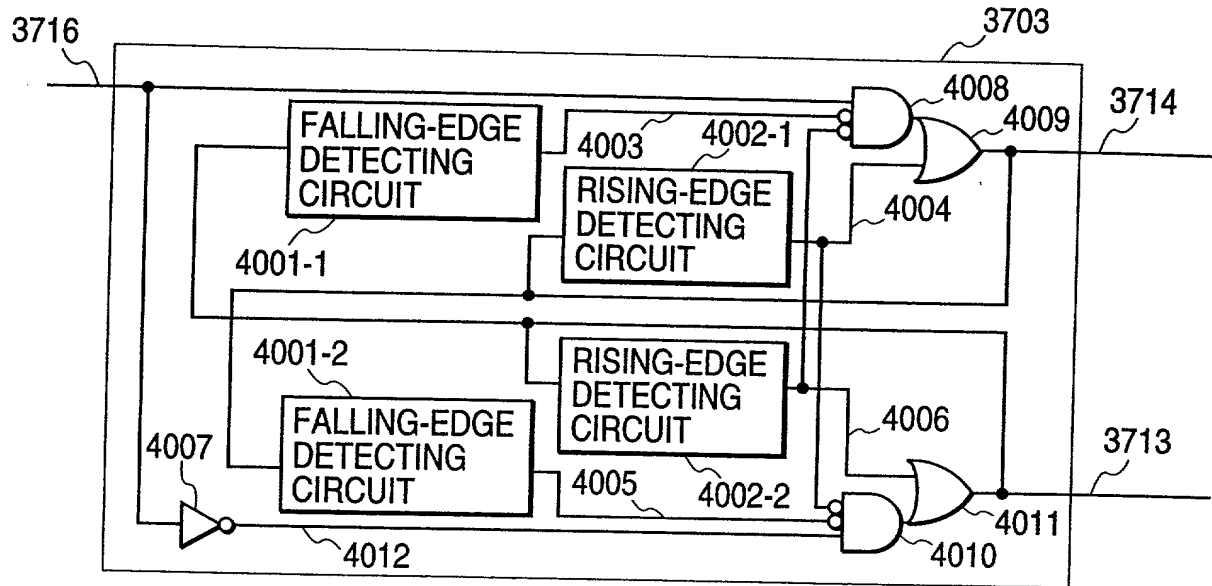
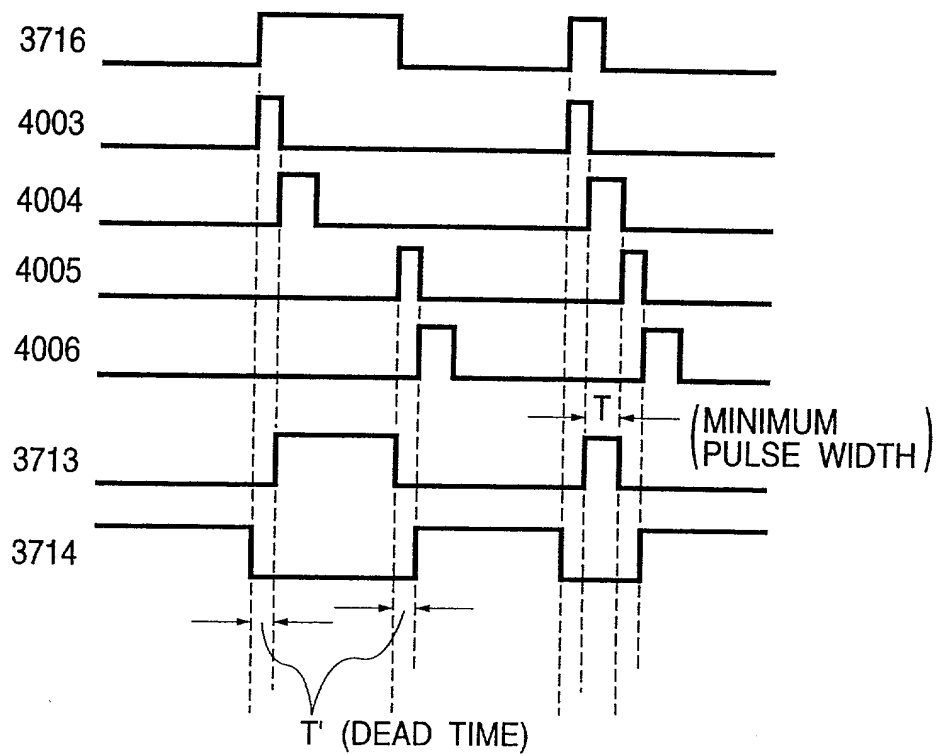
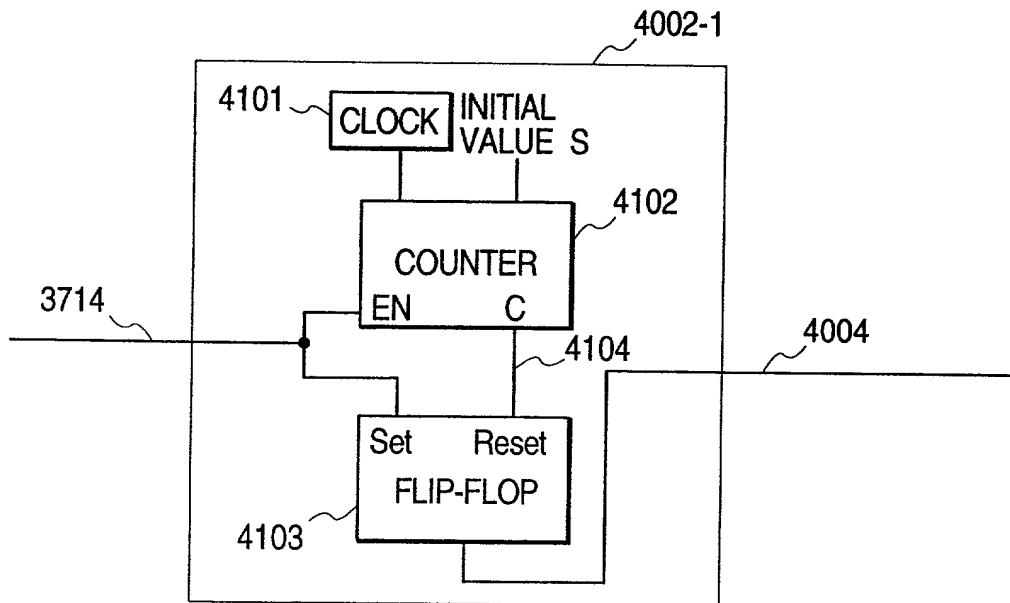
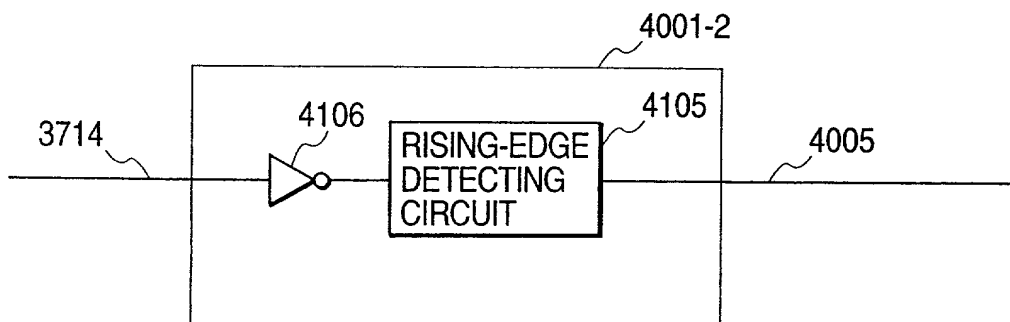
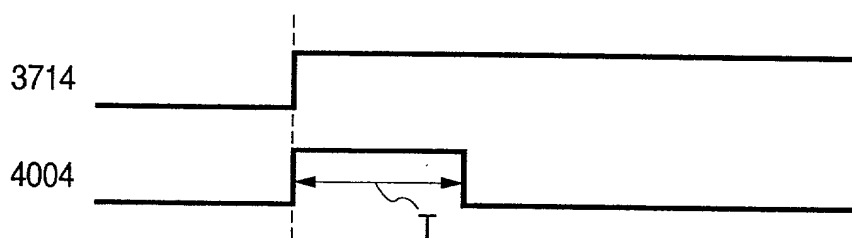


FIG. 40(b)

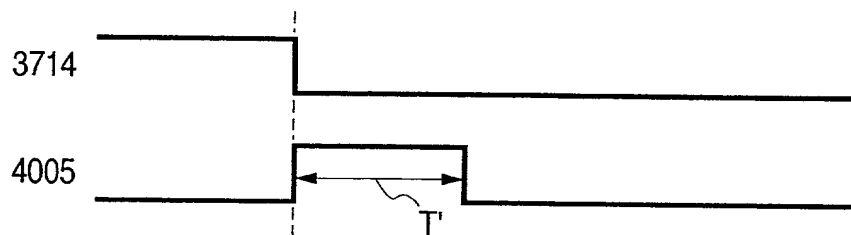


*FIG. 41(a)**FIG. 41(b)*

*FIG. 42(a)*



*FIG. 42(b)*



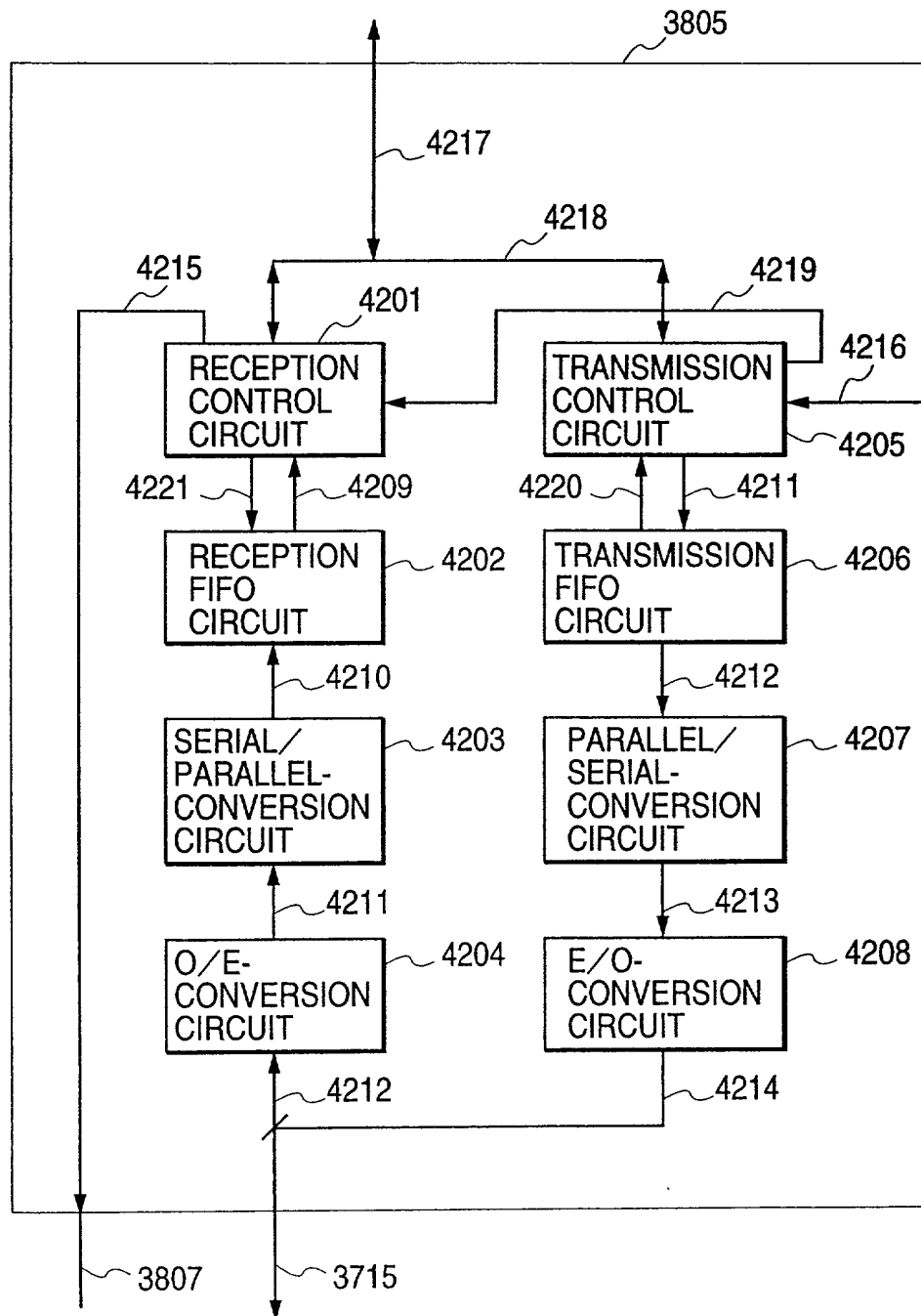
**FIG. 43**



FIG. 44

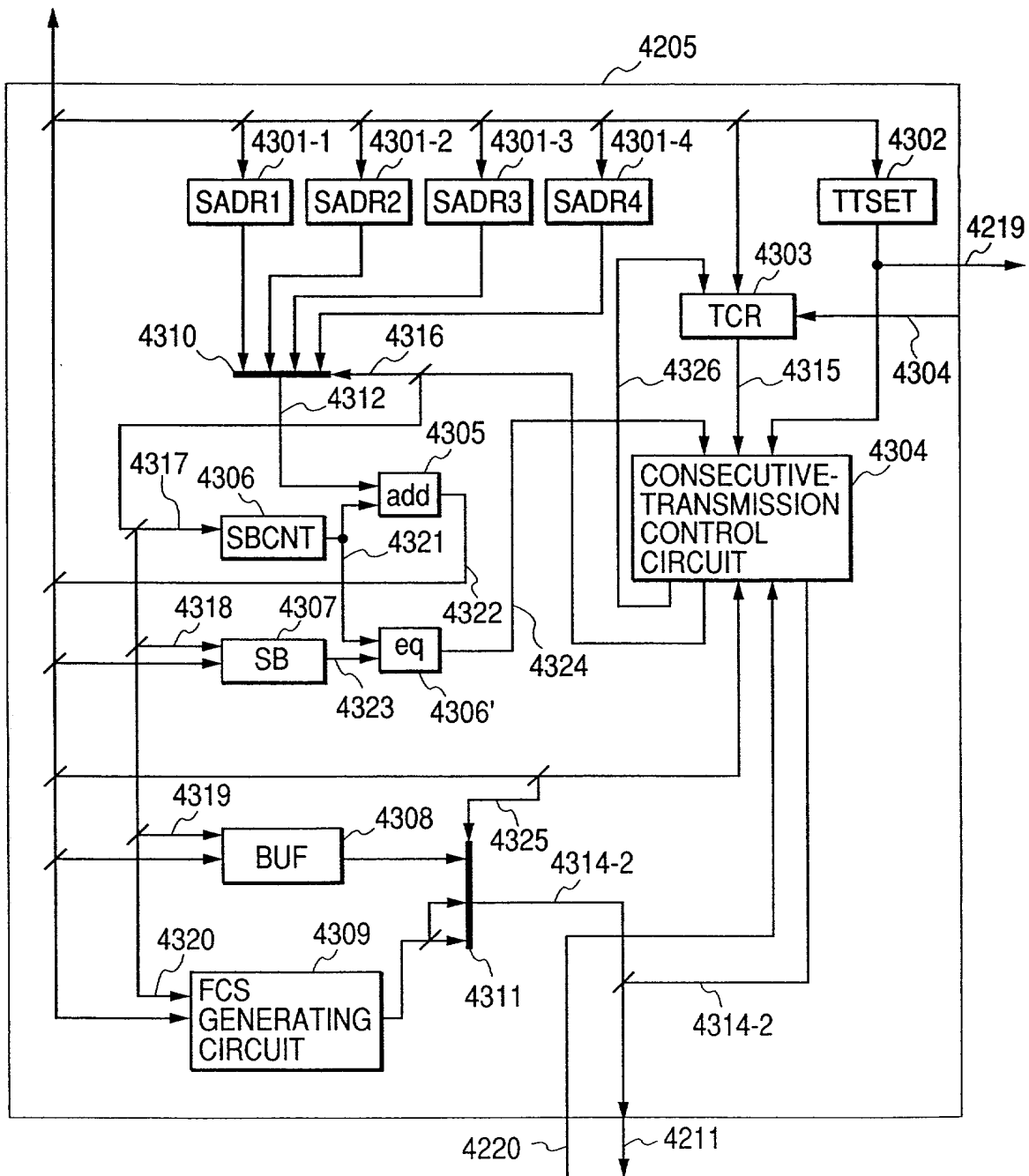


FIG. 45(a)

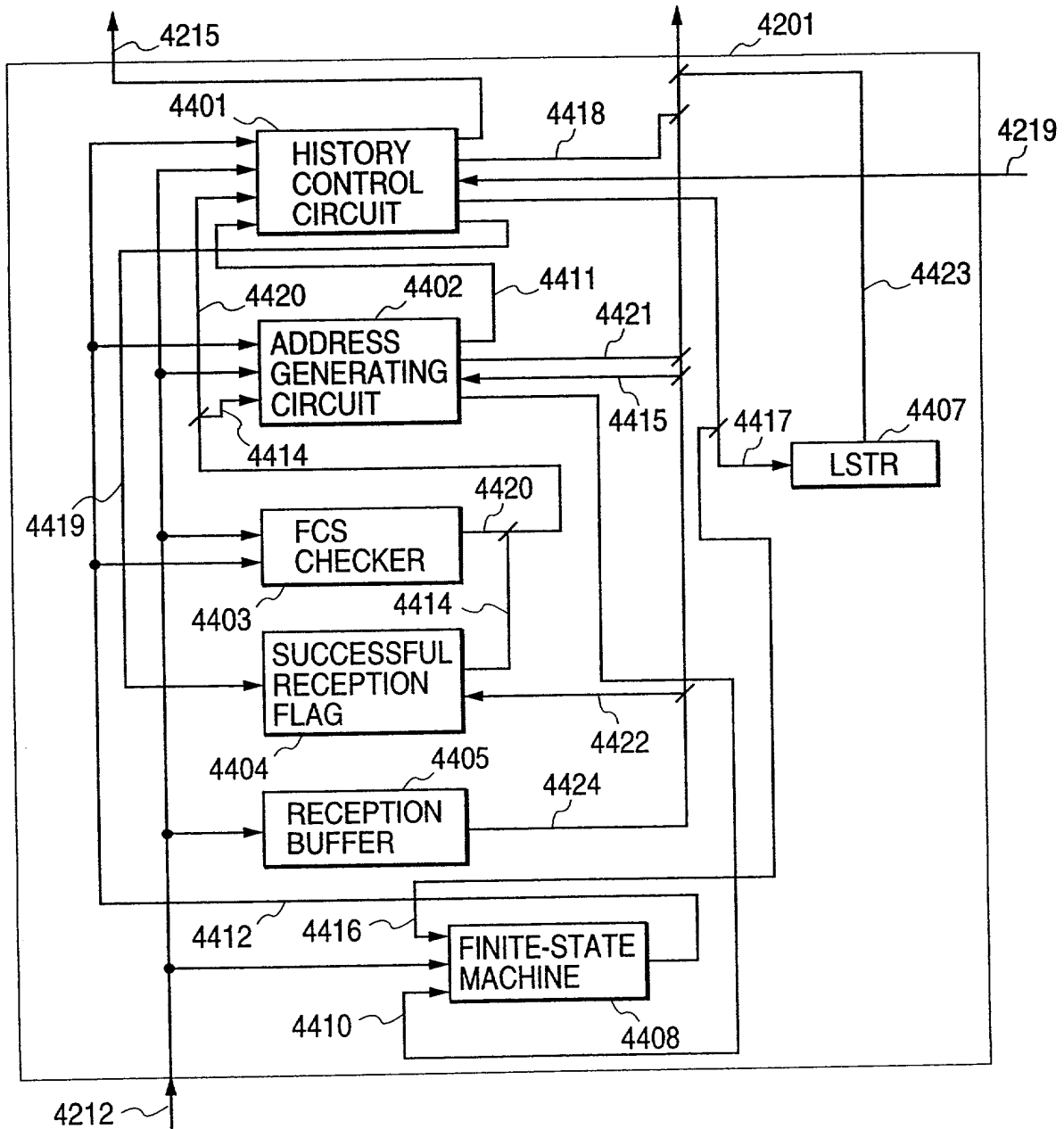


FIG. 45(b)

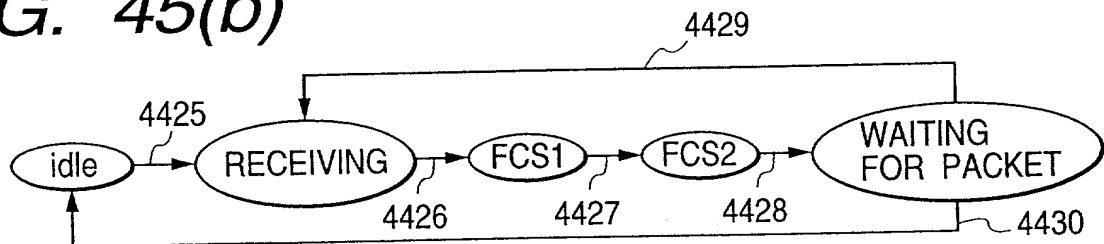


FIG. 46(a)

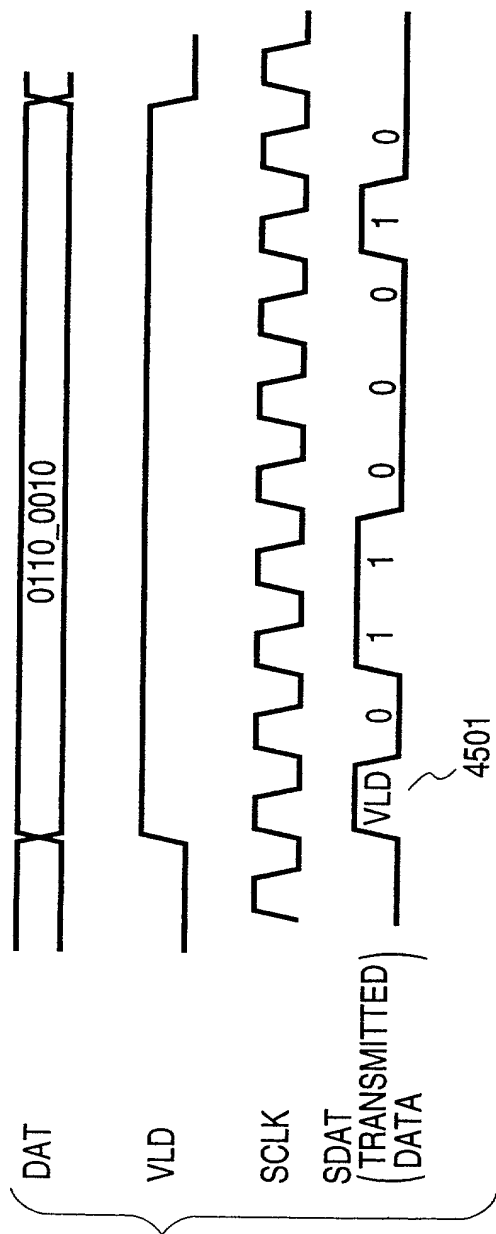
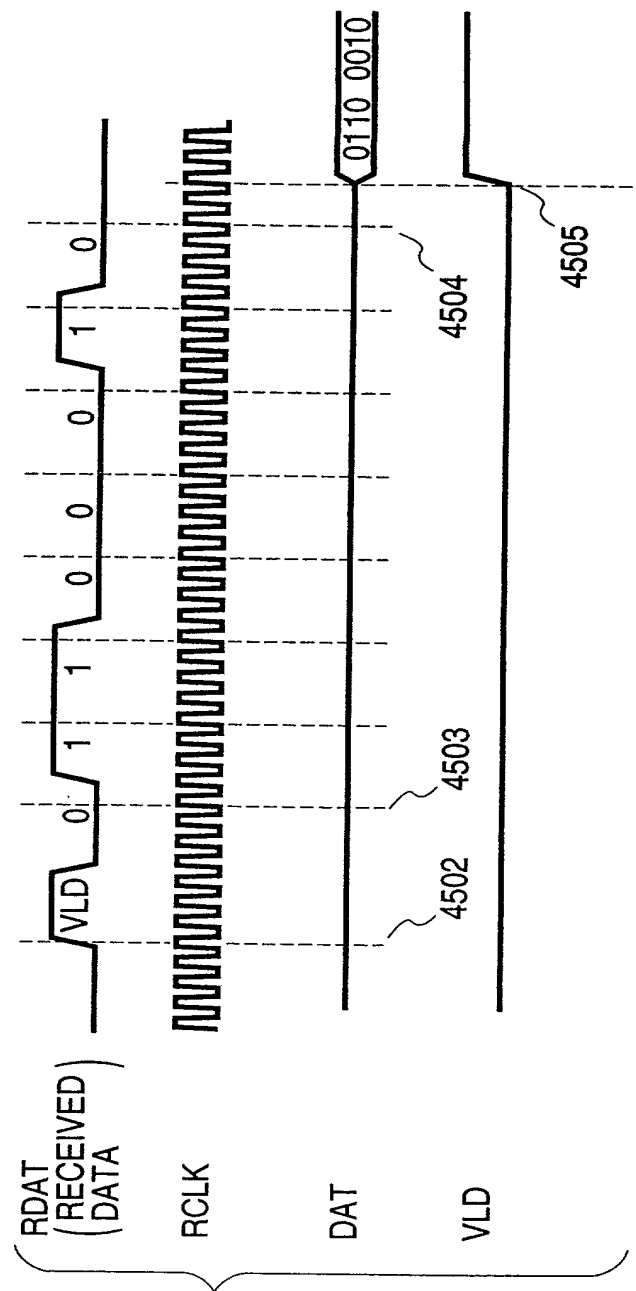


FIG. 46(b)



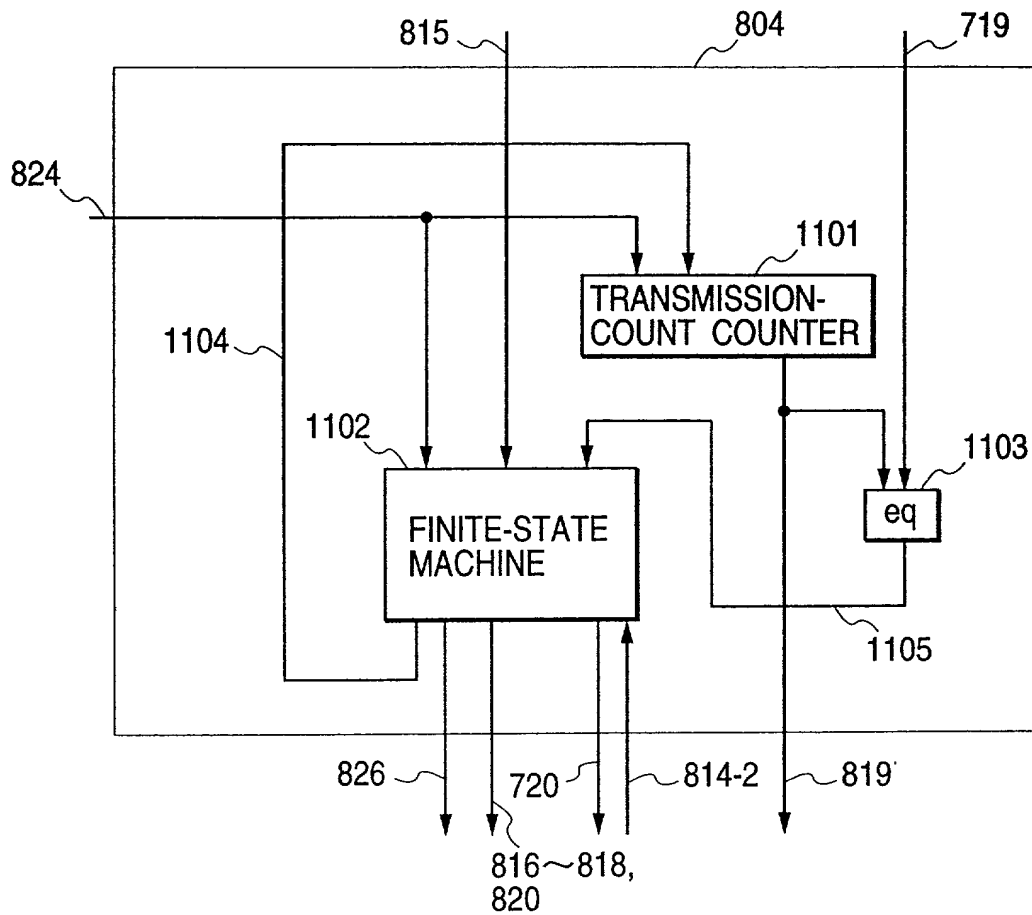
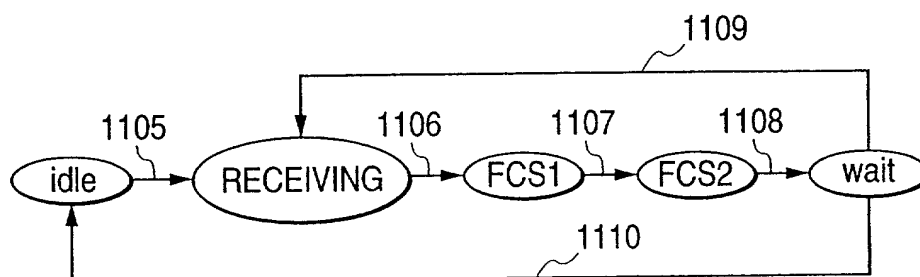
*FIG. 47(a)**FIG. 47(a)*

FIG. 48

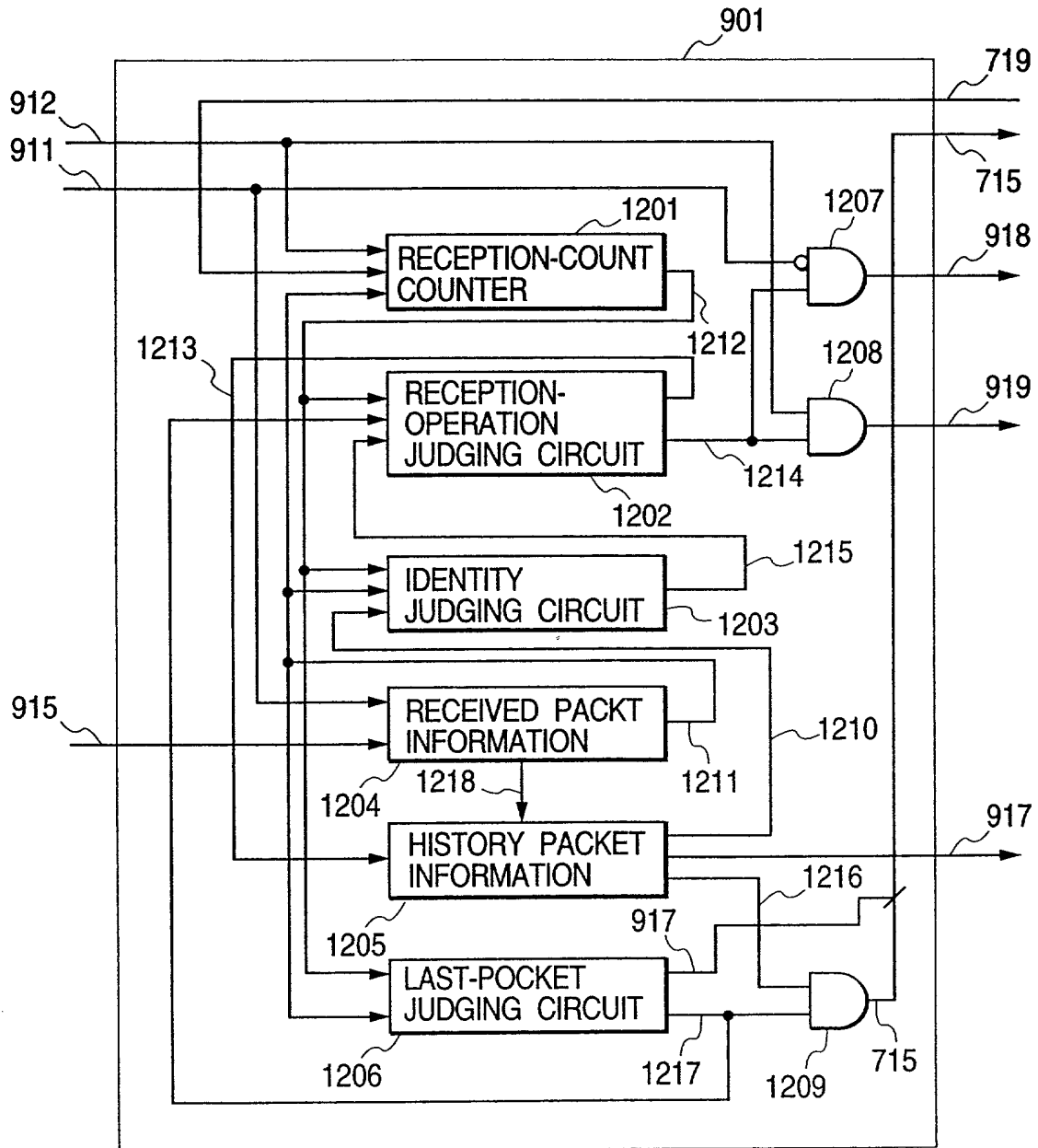
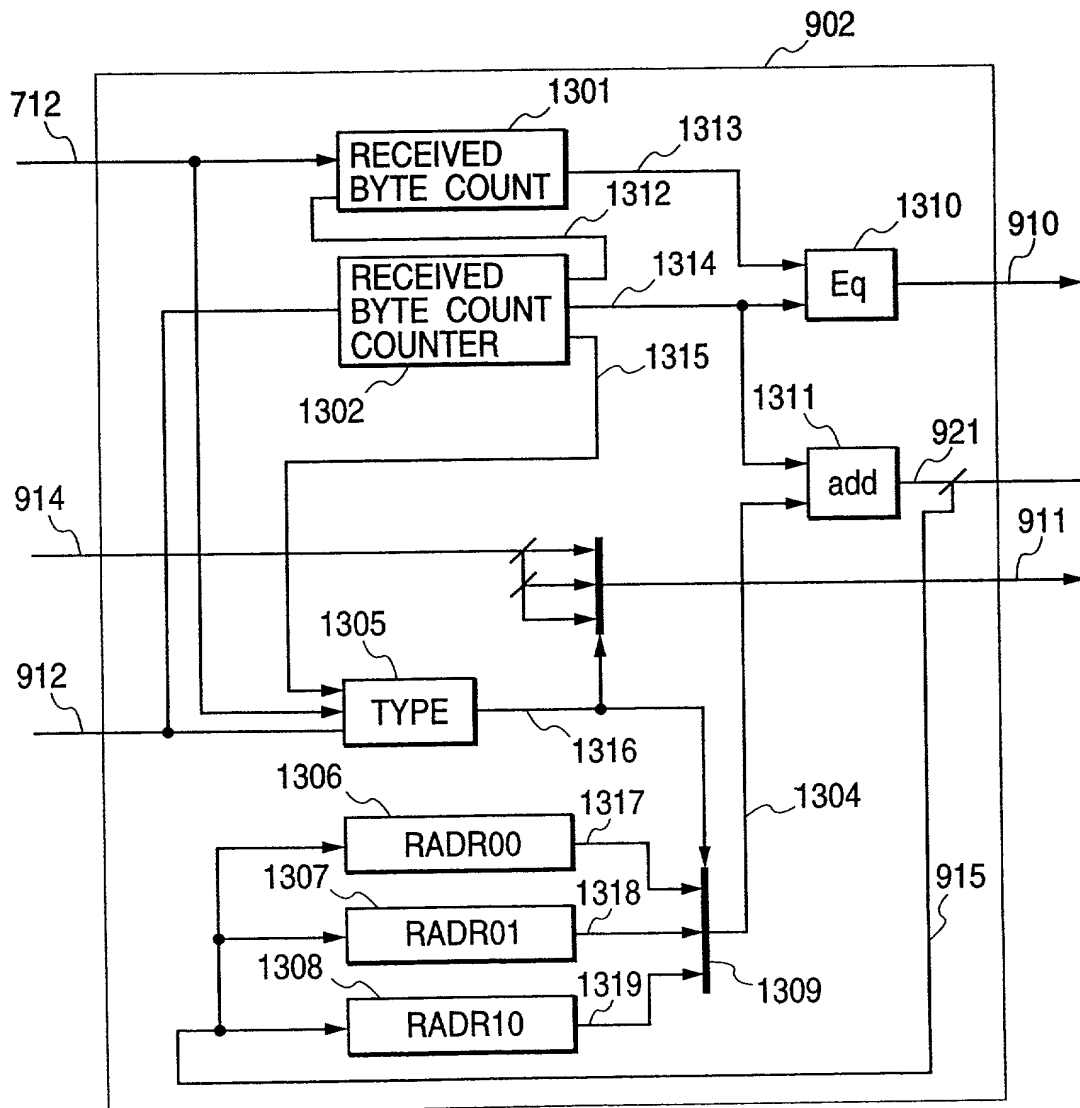
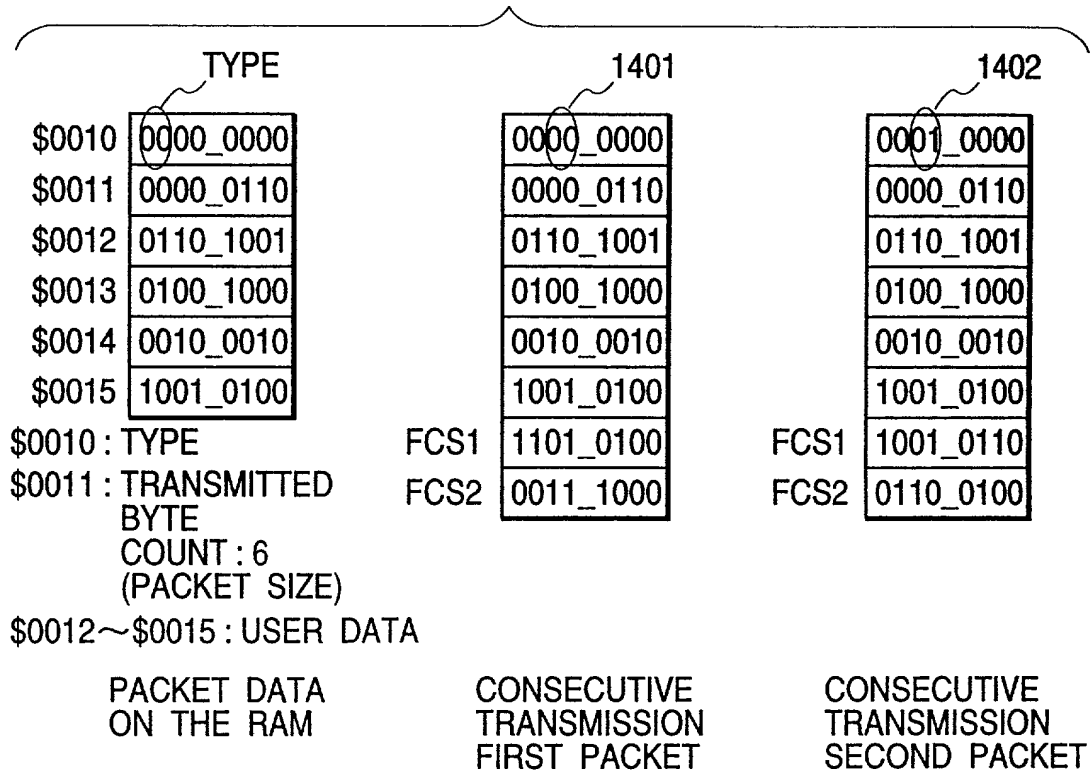
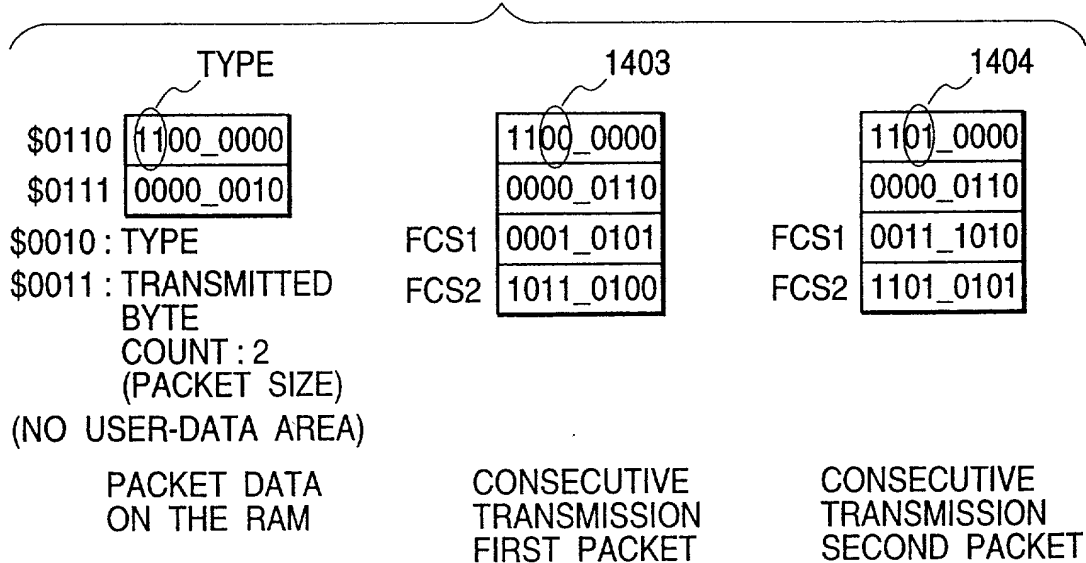


FIG. 49



*FIG. 50(a)**FIG. 50(b)*

## FIG. 51(a)

RECEPTION-OPERATION JUDGING CIRCUIT 4702

REQUEST FOR A MEMORY WRITE :

NO SUCCESSFUL HISTORY PACKET OF THE SAME TYPE IS RECEIVED IN THE PAST DURING RECEPTION OF DATA PACKETS.

REQUEST TO SET THE SUCCESSFUL-RECEPTION FLAG 4404 :

NO ERROR RECORD EXISTS IN THE RECEIVED-PACKET-INFORMATION REGISTER 4704 AND (THE RECEPTION COUNT IN THE RECEPTION-COUNT COUNTER 4701=0 OR A RECORD OF AN ERROR EXISTS IN THE HISTORY-PACKET-INFORMATION REGISTER 4705 OR THE IDENTITY JUDGING CIRCUIT 4703 JUDGES A PACKET CURRENTLY BEING RECEIVED TO BE A PACKET OF A DIFFERENT TYPE).

ERROR-LOG REQUEST :

INFORMATION INDICATING DETECTION OF AN ERROR EXISTS IN THE HISTORY-PACKET-INFORMATION REGISTER 4705 AND A PACKET CURRENTLY BEING RECEIVED IS THE LAST ONE.

INTERRUPT SIGNAL TO THE SIGNAL LINE 4415 :

THE TYPE OF A PACKET STORED IN THE HISTORY-PACKET-INFORMATION REGISTER 4705 IS INDICATED BY A CODE OF '11' AND NO RECORD OF AN ERROR EXISTS IN THE HISTORY-PACKET-INFORMATION REGISTER 4705 AND A PACKET CURRENTLY BEING RECEIVED IS THE LAST ONE.

## FIG. 51(b)

IDENTITY JUDGING CIRCUIT 4703 :

NO ERROR EXISTS IN A PACKET CURRENTLY BEING RECEIVED AND THE RECEPTION COUNT IN THE RECEPTION-COUNT COUNTER 4701 IS NOT 0 AND (NO ERROR HISTORY EXISTS IN THE HISTORY-PACKET-INFORMATION REGISTER 4705 AND (THE PACKET TYPE RECORDED IN THE RECEIVED-PACKET-INFORMATION REGISTER 4704)=(THE PACKET TYPE RECORDED IN THE HISTORY-PACKET-INFORMATION REGISTER 4705) AND THE RECEPTION COUNT IN THE RECEPTION-COUNT COUNTER 4701<=THE SEQUENCE NUMBER  $n$  OF THE REPEATED TRANSMISSION OF THE PACKET CURRENTLY BEING RECEIVED) OR (AN ERROR HISTORY EXISTS IN THE HISTORY-PACKET-INFORMATION REGISTER 4705 AND THE RECEPTION COUNT IN THE RECEPTION-COUNT COUNTER 4701<=THE SEQUENCE NUMBER  $n$  OF THE REPEATED TRANSMISSION OF THE PACKET CURRENTLY BEING RECEIVED)



## FIG. 51(c)

RECEIVED-PACKET-INFORMATION REGISTER 4704 HAVING A WIDTH OF 6 BITS :

PACKET TYPE : 2 BITS

THE SEQUENCE NUMBER  $n$  OF THE REPEATED TRANSMISSION : 2 BITS

ERROR INFORMATION-2 BITS :

ERROR TYPE : 1 BIT INDICATING A CRC ERROR OR A RECEIVED-DATA  
OVERRUN ERROR

ERROR DETECTION : 1 BIT INDICATING WHETHER AN ERROR IS  
DETECTED OR NOT

## FIG. 51(d)

HISTORY-PACKET-INFORMATION REGISTER 4705 HAVING A WIDTH OF 4 BITS :

PACKET TYPE : 2 BITS

ERROR INFORMATION-2 BITS :

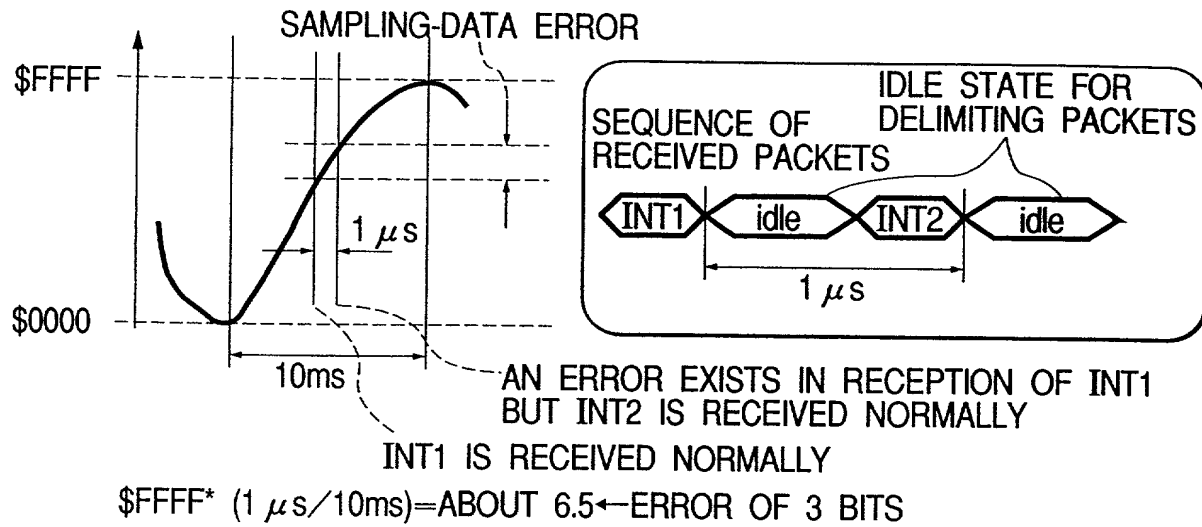
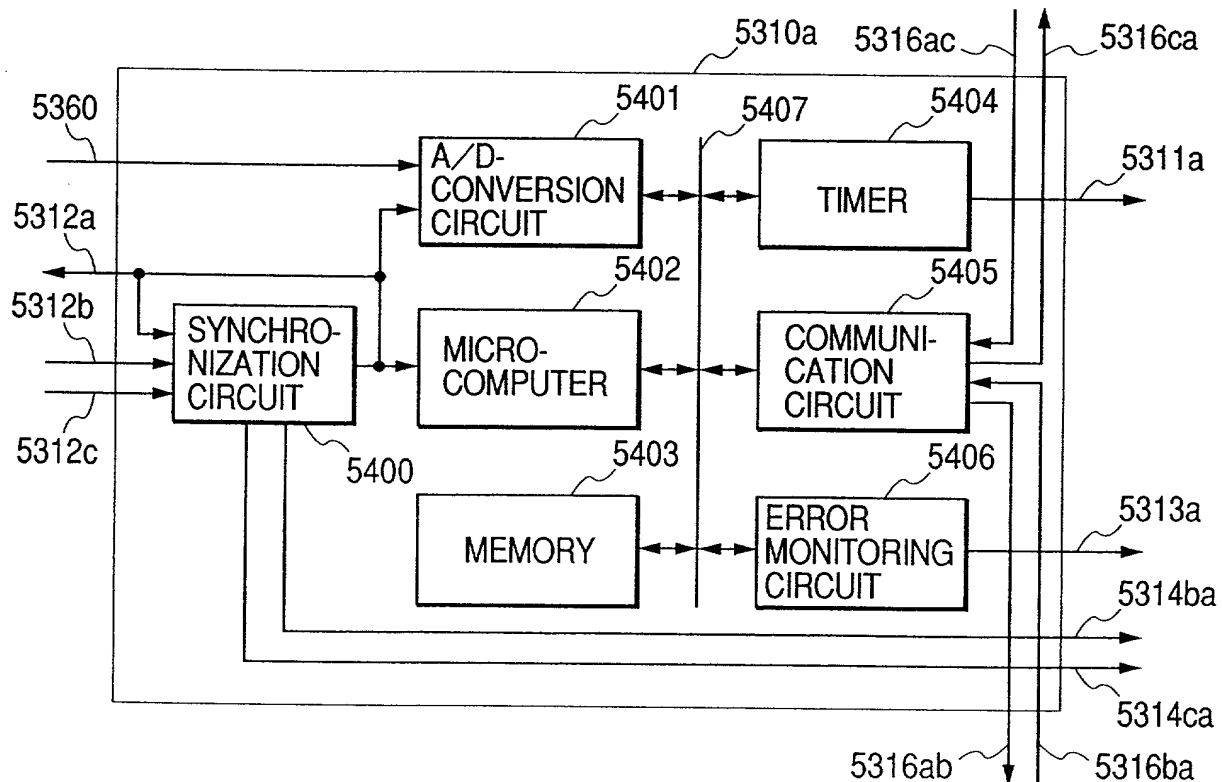
ERROR TYPE : 1 BIT INDICATING A CRC ERROR OR A RECEIVED-DATA  
OVERRUN ERROR

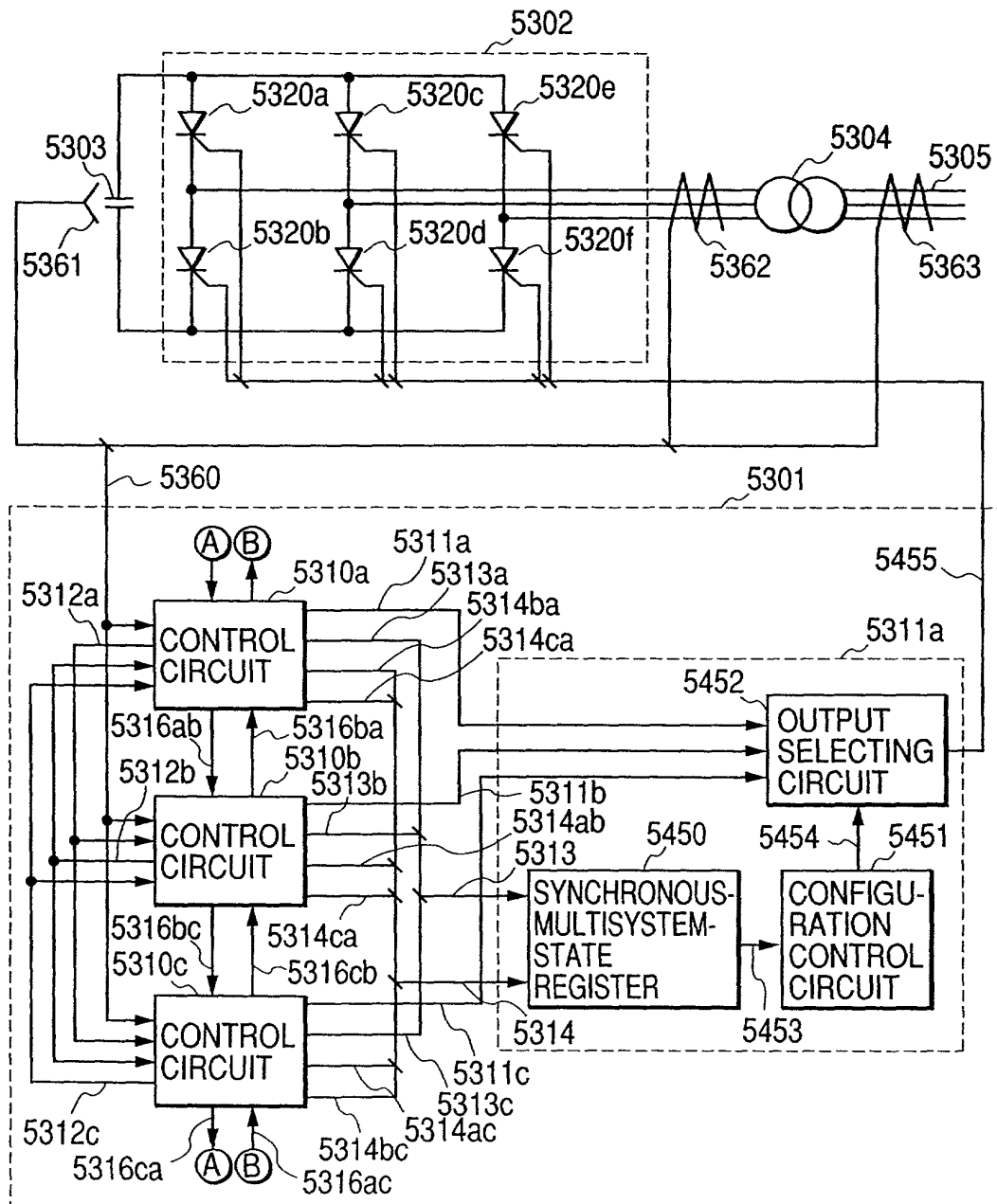
ERROR DETECTION : 1 BIT INDICATING WHETHER AN ERROR IS  
DETECTED OR NOT

## FIG. 51(e)

LAST-PACKET JUDGING CIRCUIT 4706 :

(NO ERROR IS DETECTED IN A PACKET CURRENTLY BEING RECEIVED  
AND THE CONTENTS OF THE REPEATED-TRANSMISSION-COUNT  
SETTING REGISTER 4302)  $\leq$  THE SEQUENCE NUMBER  $n$  OF THE  
REPEATED TRANSMISSION OF THE PACKET CURRENTLY BEING  
RECEIVED) AND (AN ERROR IS DETECTED IN A PACKET CURRENTLY  
BEING RECEIVED AND THE CONTENTS OF THE REPEATED-  
TRANSMISSION-COUNT SETTING REGISTER 4302  $\leq$  THE CONTENTS OF  
THE RECEPTION-COUNTER 4701) OR (A SUCCESSFUL-RECEPTION  
HISTORY EXISTS IN THE HISTORY-PACKET-INFORMATION REGISTER .  
4705 AND THE PACKET TYPE STORED IN THE RECEIVED-PACKET-  
INFORMATION REGISTER 4704 IS DIFFERENT FROM THE PACKET TYPE  
STORED IN THE HISTORY-PACKET-INFORMATION REGISTER 4705) OR A  
TIME-OUT EVENT OCCURS DURING A PACKET WAITING STATE OF THE  
FINITE STATE MACHINE 4408.

**FIG. 52****FIG. 54**

**FIG. 53**

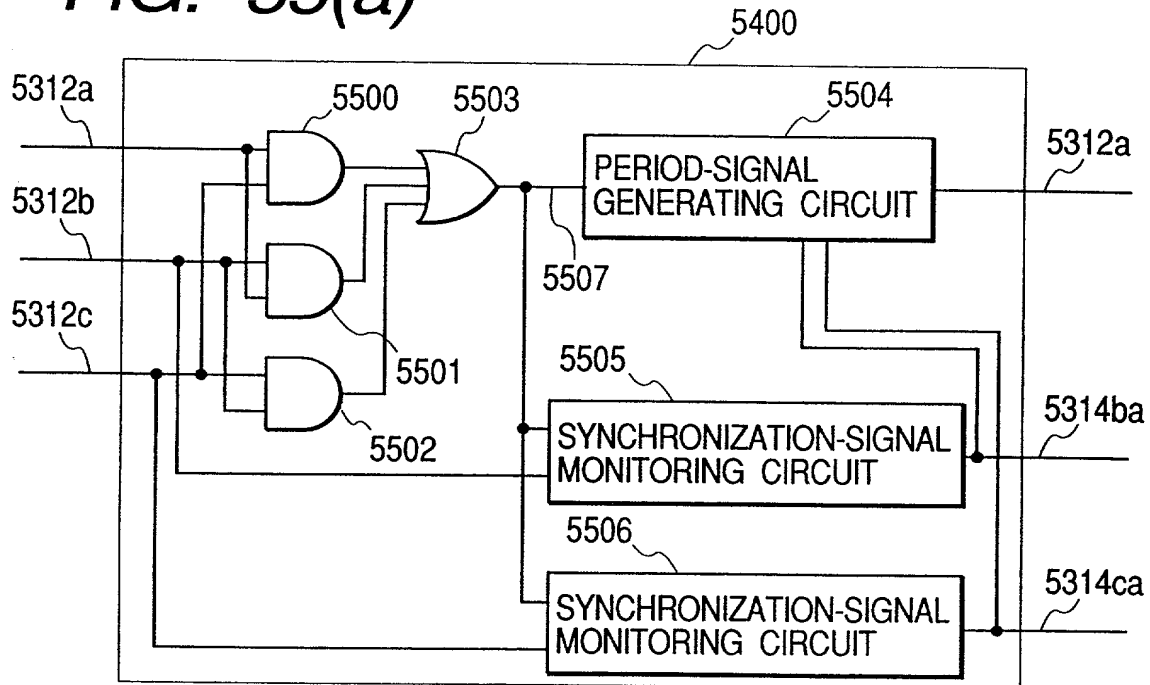
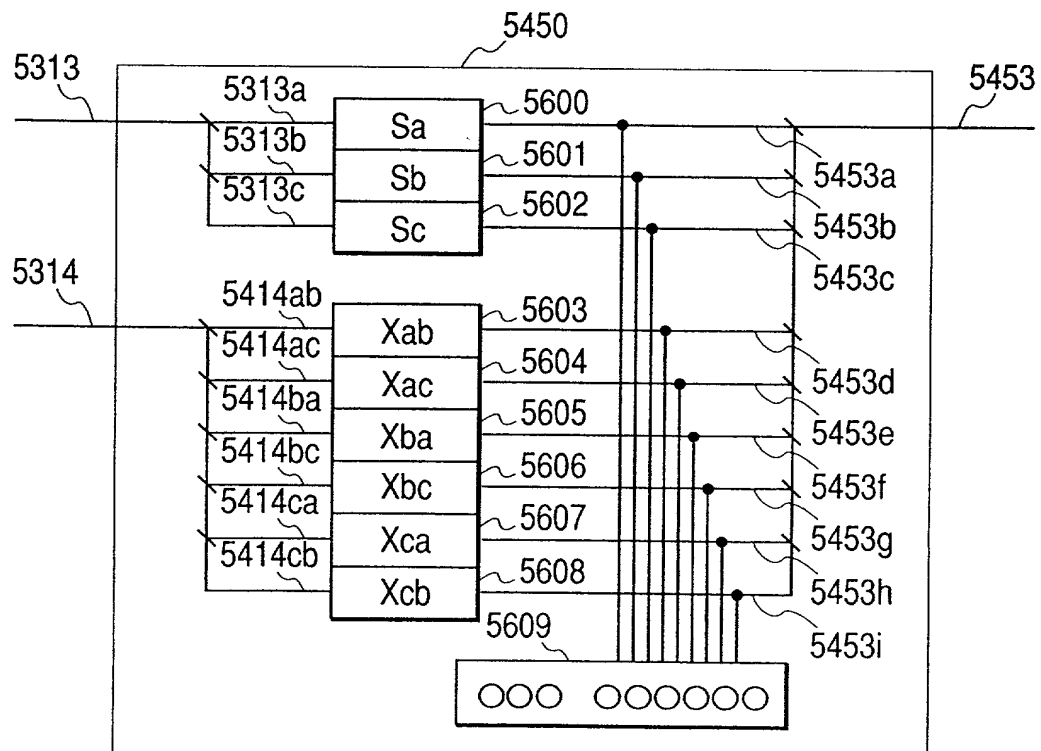
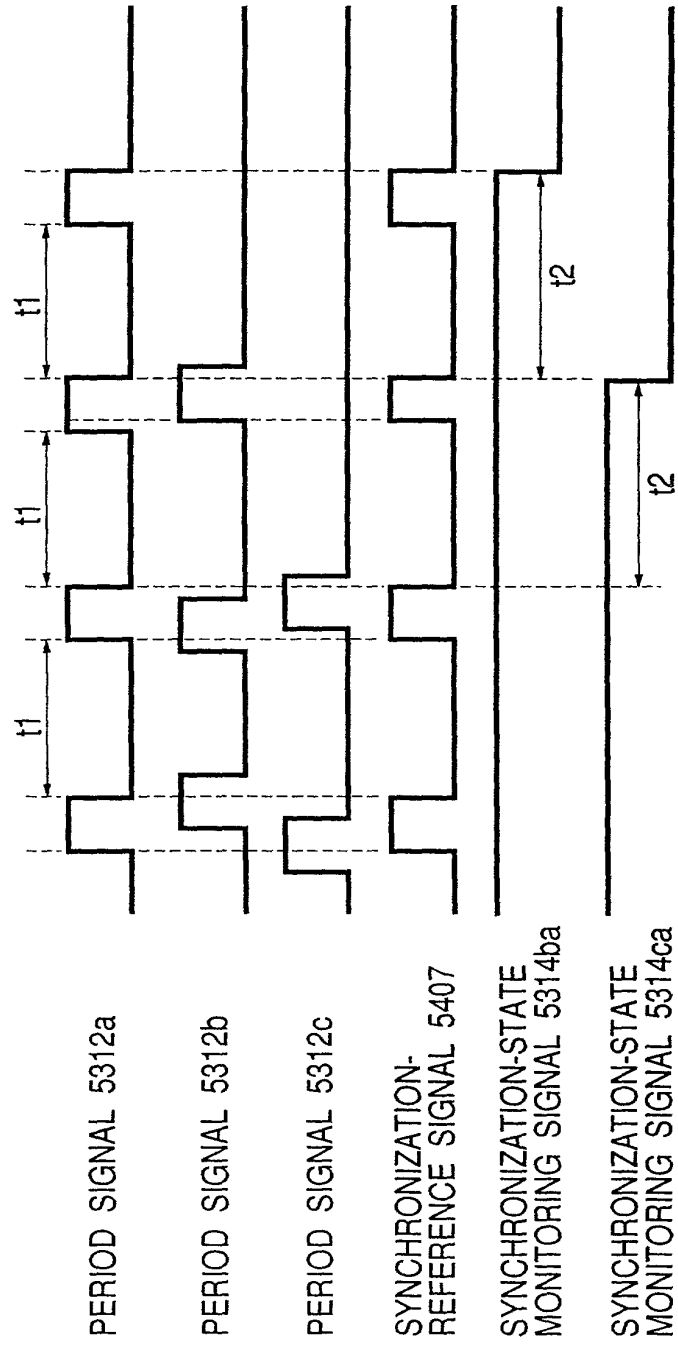
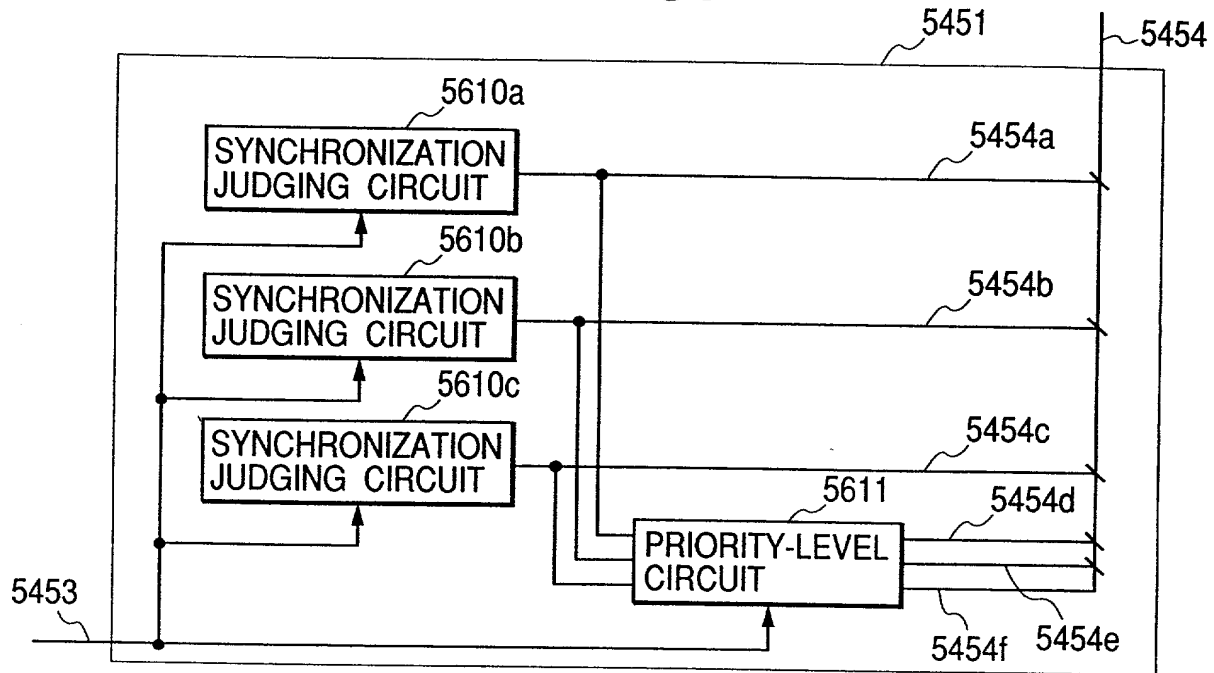
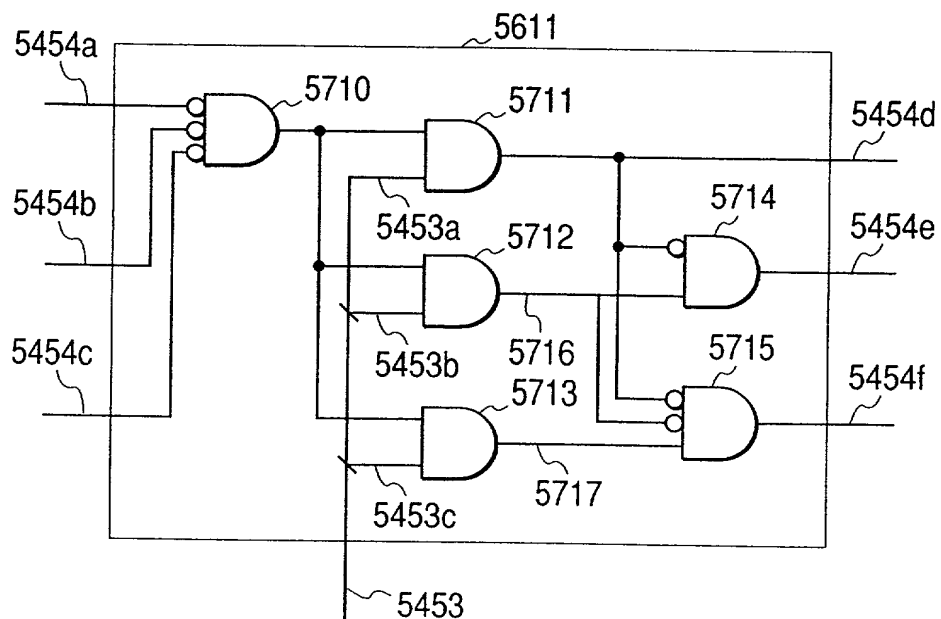
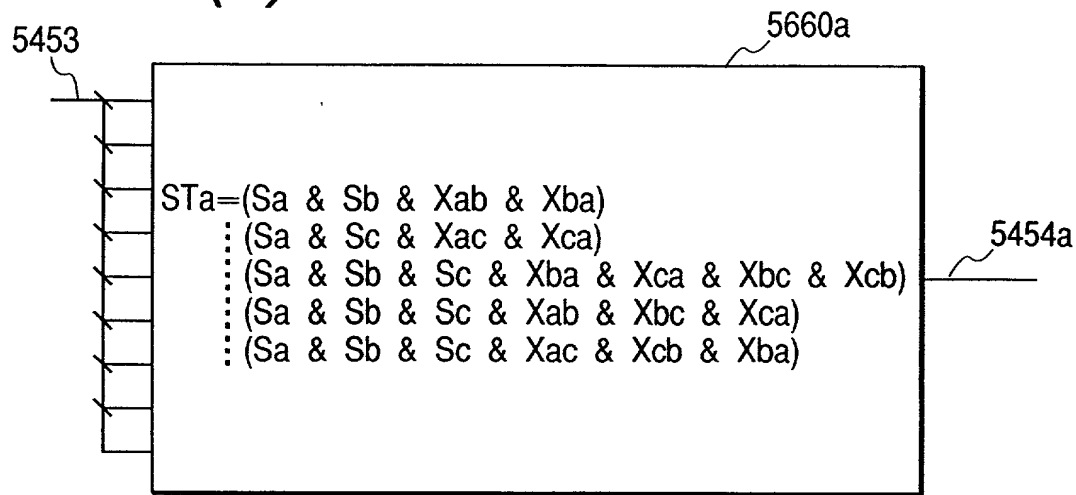
**FIG. 55(a)****FIG. 56**

FIG. 55(b)

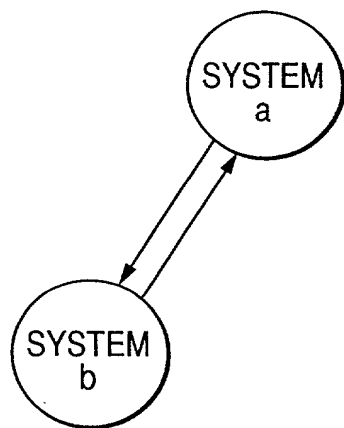


**FIG. 57****FIG. 59**

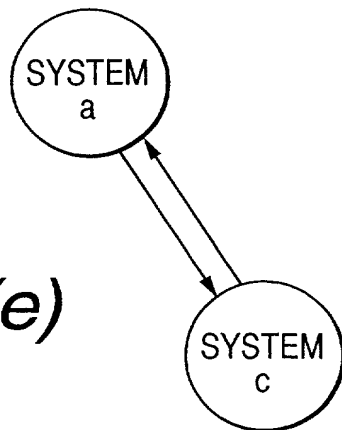
**FIG. 58(a)**



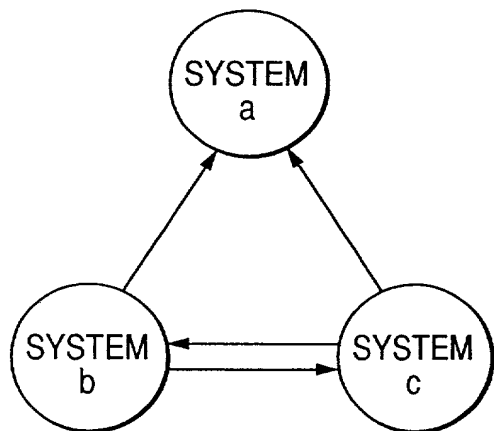
**FIG. 58(b)**



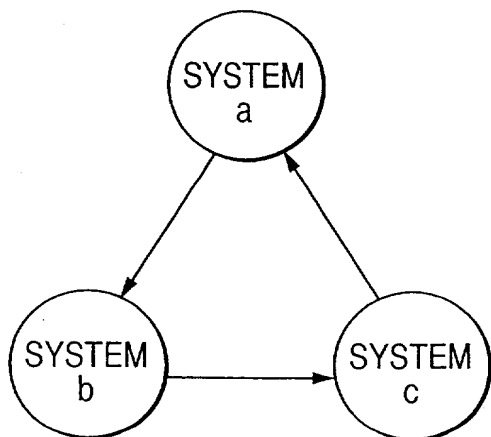
**FIG. 58(c)**



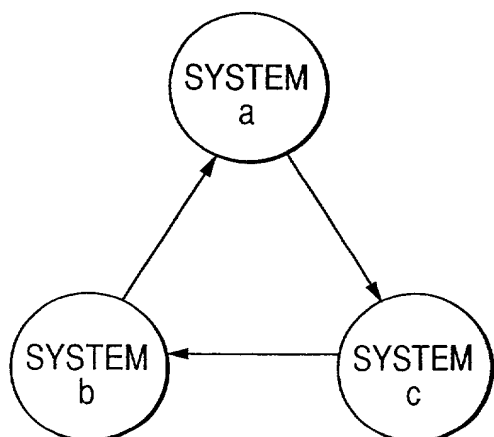
**FIG. 58(d)**

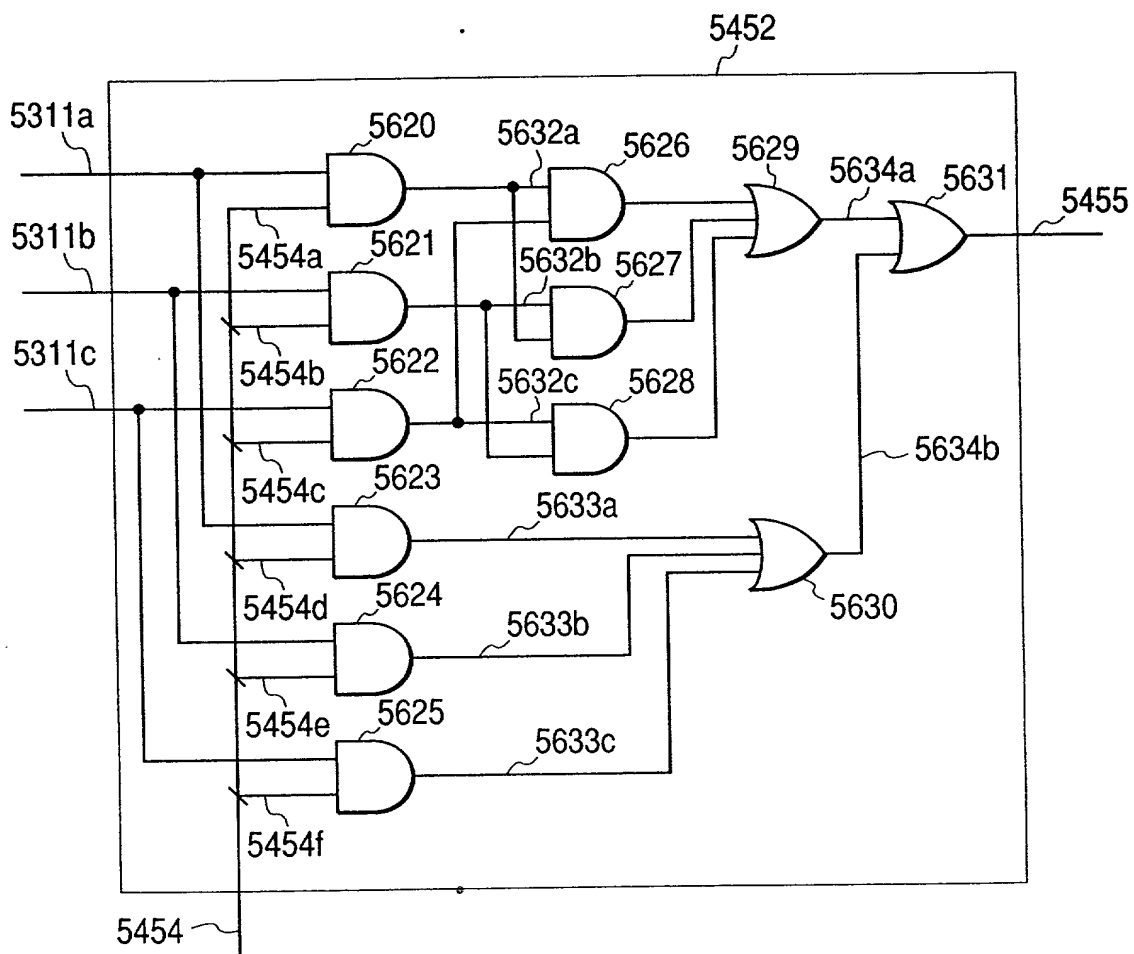


**FIG. 58(e)**



**FIG. 58(f)**



**FIG. 60**



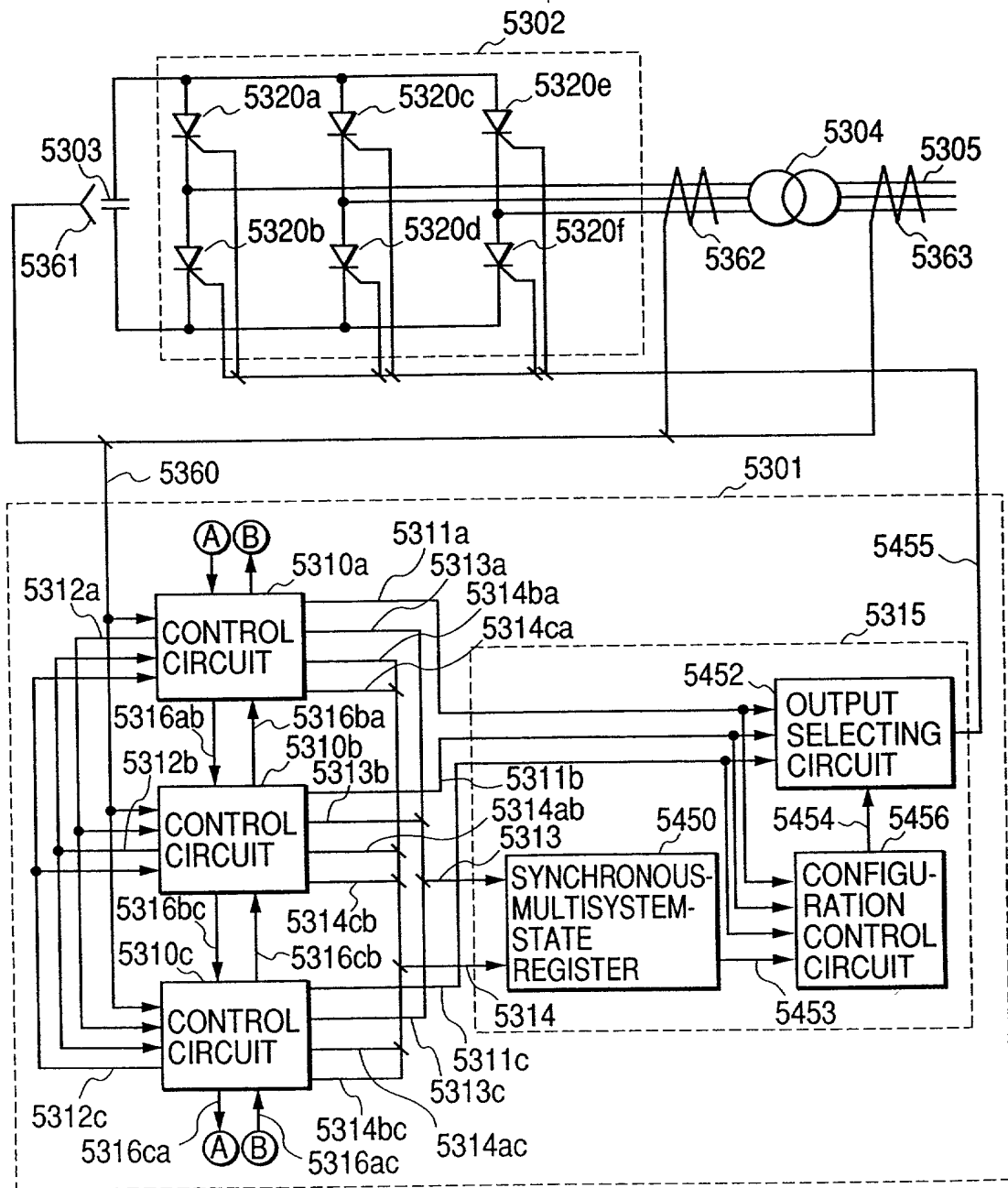
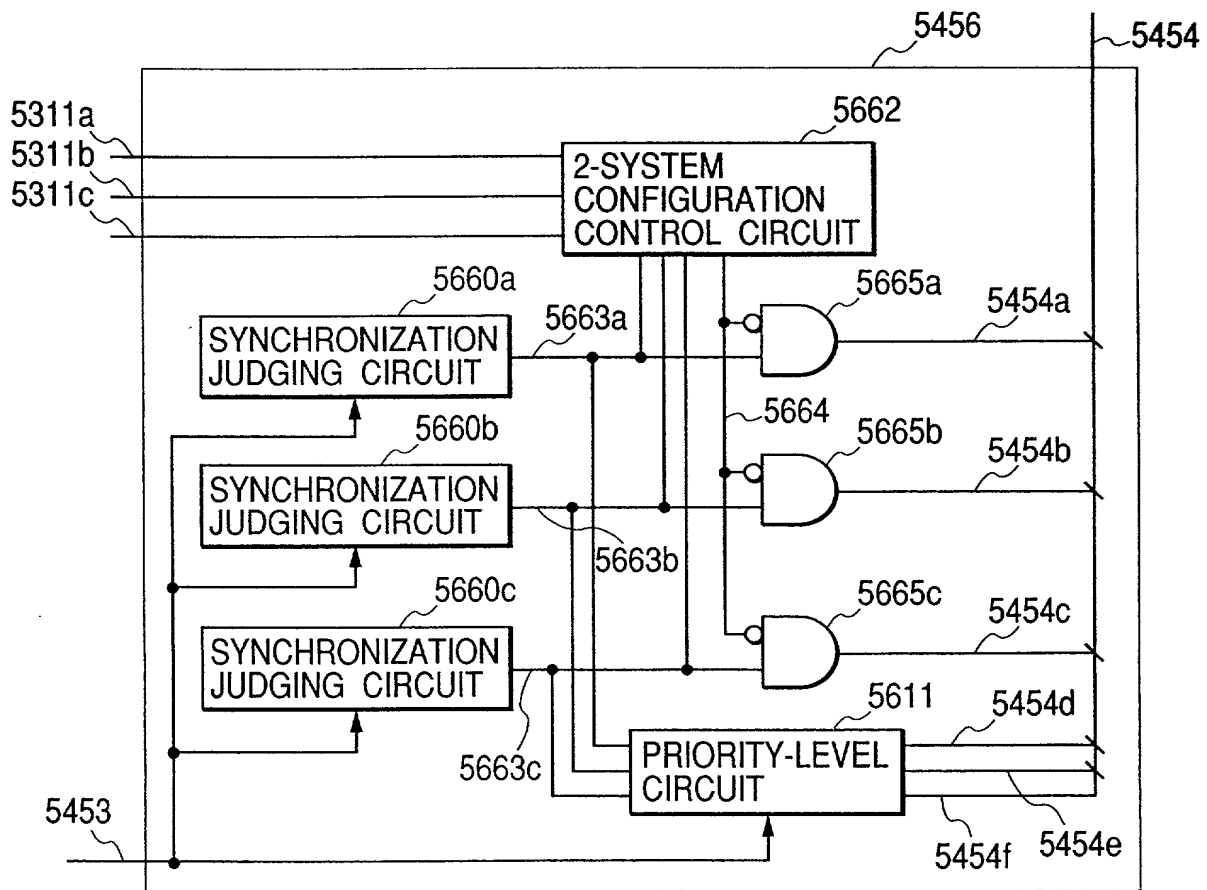
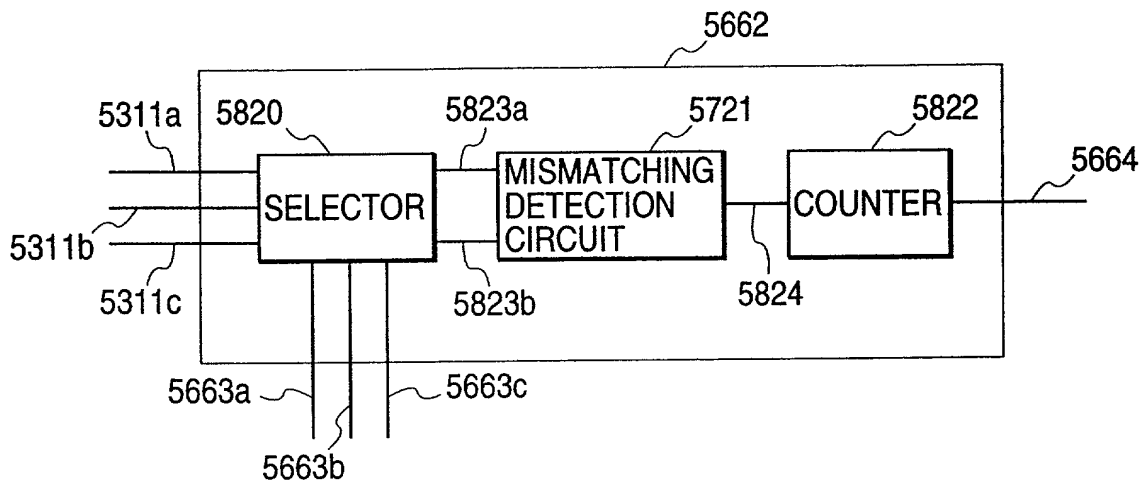
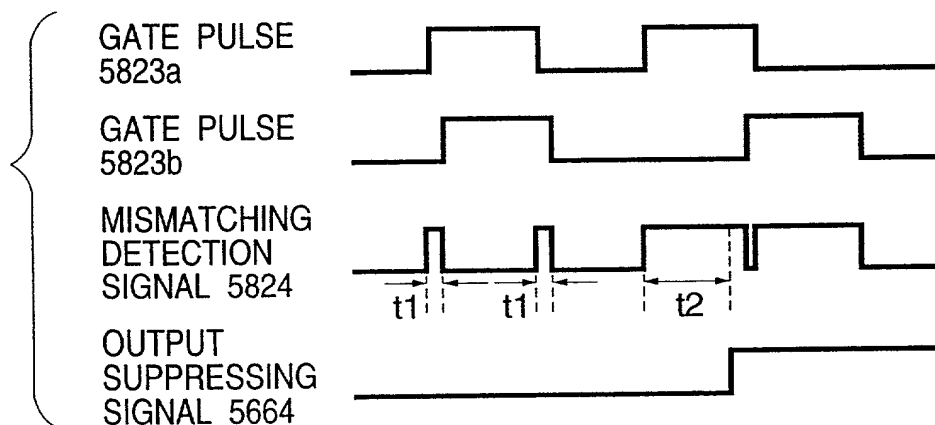
**FIG. 61**

FIG. 62



*FIG. 63(a)**FIG. 63(b)*

*FIG. 64(a)*

SELECTOR 5820

5663a	5663b	5663c	5823a	5823b
0	0	0	0	0
0	0	1	0	0
0	1	0	0	0
0	1	1	11b	11c
1	0	0	0	0
1	0	1	11a	11c
1	1	0	11a	11b
1	1	1	0	0

*FIG. 64(b)*

MISMATCHING DETECTION CIRCUIT 5821

5823a	5823b	5824
0	0	0
0	1	1
1	0	1
1	1	0

**FIG. 65**